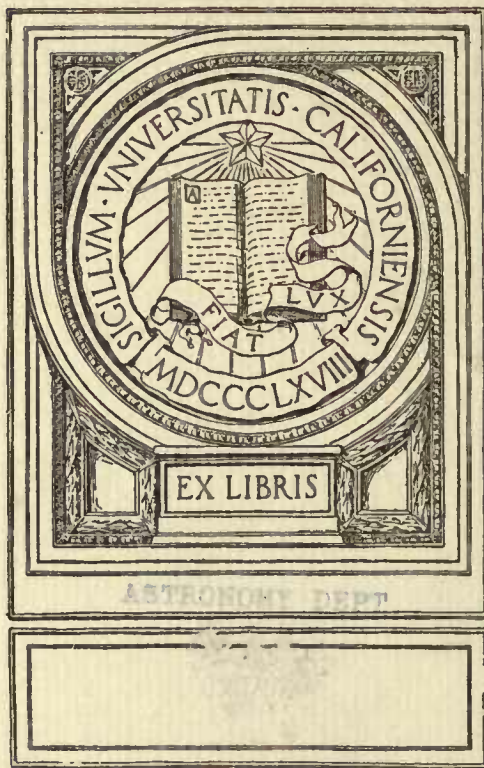




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FROM PHOTOGRAPHS TAKEN AND MEASURED AT THE
UNIVERSITY OBSERVATORY, OXFORD

UNDER THE DIRECTION OF

HERBERT HALL TURNER, M.A., D.Sc., F.R.S.

SAVILIAN PROFESSOR OF ASTRONOMY

VOL. IV.

MEASURES OF
RECTANGULAR CO-ORDINATES AND DIAMETERS
OF 65808 STAR IMAGES

ON PLATES WITH CENTRES IN

DEC. + 28°



EDINBURGH

PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE
BY NEILL & COMPANY, LTD., BELLEVUE

1908

Price Fifteen Shillings.

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For the following stars insert an asterisk after the number :—Nos. 17278, 46244 (=C 8632a), 48805 (=C 9308a), 50324, 50436 (=C 9472a), 51315 (=C 9520a), 53134 (=C 9924a), 57789 (=C 10583), 60865, 62755, 63919, 65041, 65045 (=C 12566a), 65235, 66269 (=C 12848a), and 67000 (=C 12848a).

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OXFORD ASTROGRAPHIC CATALOGUE,

1900.

VOL. IV.

INTRODUCTION.

I.—REFERENCE TO HISTORICAL SUMMARY.

A general introduction to all the volumes of measures is given in Vol. I., to which reference should be made. In what follows only such portions are repeated as require modification from zone to zone; or may be convenient as working directions. The order of the sections of this general introduction has been retained here, so that reference to the portions where fuller details are given may be the more readily made.

For the heavy work of measuring and reducing the plates the resources of the University Observatory were reinforced by annual subsidies from the Government Grant Fund, administered by the Royal Society, amounting in all to £1000. The expense of printing is being borne in equal portions by H.M. Government and by the University, an arrangement brought about by the friendly intercession of the Royal Society. A small annual grant is also being made from the Government Grant Fund to facilitate proof reading and revision.

II.—THE INSTRUMENT.

The photographic telescope, which was presented to the University in honour of Professor Pritchard by the late Dr Warren de la Rue, is rigidly attached to the 12 $\frac{1}{4}$ -inch visual telescope erected in 1874. The dome is of 23 feet diameter, and the top of the circular wall on which it rests is at a height of 26 $\frac{1}{2}$ feet above the ground, forming the S.W. corner of the Observatory buildings. The original dome had become faulty in a number of ways, and was replaced, in May–August 1900, by a new one of papier-mâché.

The pier for the telescope is isolated from the floor, and goes through the computing room below and through the basement below that. It is built on a foundation of concrete

9 feet long, 7 feet wide, $4\frac{1}{2}$ feet deep, and tapers off to $4\frac{1}{2}$ feet by 3 feet at the top, which is 23 feet above the base.

The instrument was constructed by Sir Howard Grubb, F.R.S., on the lines laid down by the *Congrès Astrophotographique International pour le Levé de la Carte du Ciel* in 1887. It consists of a 13-inch photographic telescope mounted parallel to the $12\frac{1}{4}$ -inch visual telescope, the steel tubes being firmly connected. The equatorial mounting is of the German form. The apertures of the object-glasses are $13^{\text{in}}.0$ or $0^{\text{m}}.33$ and $12^{\text{in}}.3$ or $0^{\text{m}}.31$ respectively, and the focal lengths are 11 feet 4 inches ($=3^{\text{m}}.44$) and 14 feet 6 inches ($=4^{\text{m}}.4$); so that on the photographic plate 1^{mm} represents approximately $1'.0$ [more exactly, the focal length of the photographic telescope is $3^{\text{m}}.457$, so that 1^{mm} represents $0'.992$]. The photographic telescope is corrected as regards spherical and chromatic aberration for rays near Fraunhofer's line G. It is arranged to carry a plate 16^{cm} square, with special provision for exact focussing and orientation. The eye-piece of the $12\frac{1}{4}$ -inch visual telescope is mounted on cross slides parallel and perpendicular to the equator, which are furnished with scales reading to $2''$, and permit of the observation of a guiding star to a distance of $40'$ from the centre of the field. The mounting is arranged so as to allow of motion up to and beyond the meridian on each side without reversing the telescope, for declinations used in the present work.

The photographs for the Astrographic Catalogue were all taken with the telescope west of the pier, and usually within $1\frac{1}{2}^{\text{h}}$ of the meridian (see tables of details of plates). In this position the guiding telescope is below the photographic telescope when the instrument is pointing south. The focal adjustment was made so that the plate was placed somewhat within the focus for the centre of the plate, *i.e.* focussed on a circle of radius about $32'$, so as to equalise the definition as far as practicable over the field (see *Mon. Not. R.A.S.*, lxii. p. 434). During the whole period no alteration was deliberately made in the focal adjustment or in the tilt of the object-glass; but the photographic object-glass was removed from its cell, and the lenses separated and cleaned, on 1894 March 7; and during the construction of the new dome in the summer of 1900, the object-glass was dismounted, and replaced as accurately as possible afterwards. In 1905 the object-glass was taken to Egypt for observations of the Total Solar Eelipse. The plates in the present volume may therefore be grouped for some purposes as follows :—

Before 1894 March 7	9 plates.
1894 March 8 to 1900 May	64 „
1900 September to 1905 May	63 „
After 1905 May	24 „

The photographic plate rests on three rounded agate points. These points have undoubtedly worn down during the work, and there has thus probably been a gradual change of focal adjustment. Evidence of this change was found by counting the stars in different parts of plates taken early and late (*Mon. Not. R.A.S.*, lxii. p. 444), and further details are being collected. If results of value are obtained, they will be given in Vol. VIII. of these observations.

Meantime the star density on the average plate at different distances from the centre may be taken approximately as below (*loc. cit.*):—

Distance from Centre,	0'	10'	20'	30'	35'	40'	50'	60'	70'	80'
No. of Stars,	86	86	90	95	100	95	90	78	64	50

Adjustments of Equatorial.

For plates of about 30° declination taken near the meridian the adjustments of the equatorial are not very important, and no particular attention was paid to them.

A pendulum control was at one time fitted to the driving-clock of the equatorial, but had been dismantled before 1892. There is an electric hand-control which was used throughout the working to correct small irregularities of driving due to refraction or imperfect adjustment.

No attempts were made to correct mechanically the orientation of the plates. The wearing of the agate side-bearings has no doubt caused a gradual change in the orientation with respect to the telescope head; but since experience showed that this did not remain accurately the same for consecutive plates, there was no particular advantage in spending time in adjustment, so long as the orientation did not become inconveniently large.

III.—PHOTOGRAPHIC.

For the great majority of the photographs of the Astrographic Catalogue, three exposures of 6^m, 3^m, and 20^{sec} were given, the telescope being displaced in declination between the exposures.

On measuring some of the early plates, the number of stars was found to be too small, as compared with the number shown in the *Bonn Durchmusterung*. From 1898 (Jan.) the number of stars on each plate was counted before commencing measurement, a “billiard-marker” being used in the counts, so that the observer could record, without removing his eye from the microscope, the number of stars showing the 20^{sec} exposure (all three images) with the spot-ball marker, and the number showing only two images (6^m and 3^m) with the white-ball marker. The rule was to reject plates which did not show with two images at least three times the number of stars recorded by Argelander; but this rule was not adhered to in the Milky Way, as it was considered sufficient in a “Catalogue of Reference Stars” to measure a few hundred stars on a single plate, without attempting thousands; there are, however, only three plates in this volume which fall below this standard.

The most sensitive plates were used:—from 1892 Jan. 1 (plate 69) to 1894 Nov. 17 (plate 564), either Ilford “Special Rapid” or Mawson and Swan’s “Stellar”; from 1894 Nov. 19 (plate 565) to 1895 Aug. 31 (plate 833), Mawson and Swan’s “Stellar”; from 1895 Aug. 31 (plate 834) to 1897 Jan. 27 (plate 1075), Mawson and Swan’s “Stellar” or Elliott’s “Rocket”; from 1897 July 13 (plate 1076) to the present time, Elliott’s “Rocket” plates, with the exception of a few Ilford “Monarchs.”

Special thin plate glass has been used throughout, except for a few plates taken at the end of 1892, which were on ordinary glass and have been superseded by later photographs.

The tables of details of the plates show the particular plate and developer used.

From 1900 Sept. 19 to 1901 Mar. 21 (plates 1607 to 1733) all the plates taken were for the planet Eros or Nova Persei.

The *réseau* which is photographed on each plate, to facilitate the measurement, is a film of silver on glass, on which lines are traced with a ruling machine in perpendicular directions at distances of 5^{mm}. or 5^{mm}.04 apart. The latter distance was adopted to compensate for the too great focal length of the telescope, which should have been such as to give 1^{mm}. = 1'.0, but actually gave 1'.0 = 1^{mm}.008. But the ruling was naturally more difficult, and it was not until the third attempt that a satisfactory *réseau* was produced, there being a line misplaced in each of the two former. Unfortunately, the first error was not discovered until a number of plates had been taken which it was considered desirable to measure, and a troublesome allowance for the error was necessary; none of these 33 plates have been used in this volume. The following is a list of *réseaux* used at the Observatory, the particular one used for each plate being specified in the tables of details.

List of Réseaux used at Oxford.

Oxford No.	Maker.	Limiting Dates.	Plates.	Value of one Interval.
I.	Vogel	To 1892 Jan.	1-68	mm. 5.00
II.	Gautier (No. 22)	1892 Jan. — 1895 Mar.	69-707	5.00
III.	Gautier (No. 64)	1895 Mar. — 1897 Nov.	708-1158	5.00
IV.	Gautier	1897 Dec. — 1898 Apr.	1159-1191	5.04
V.	Gautier	—	none	5.04
VI.	Gautier	1898 July — 1906 June 19	1198-2477	5.04
VII.	Gautier	1906 June 20 and after	2478 (in use)	5.04

Plate 69 was the first plate taken for the Astrographic Catalogue, so that No. I. was not really used. No. IV. was found to have the line $x=17$ misplaced by 0.025, and its use was discontinued. On receipt of No. V., its spaces were tested by copies on plates without stars, and line $y=3$ was found to be misplaced; hence No. V. has not been used.

The *réseau* was imprinted on the plates after exposure to stars (and before development) by exposure to a gas jet or electric light at a distance of 15 feet, the *réseau* and plate being separated by an edging of paper 0^{mm}.1 thick. The light was thus not quite parallel, the rays to opposite edges of the plate being inclined at an angle of 2°; but the immediate effect could only be a very slight alteration of apparent scale value of the plate, and the second order quantities would be quite insensible.

The following table gives the details of the plates in the present volume.

The *first* column is the number of the plate in the Oxford series.

The *second* column gives the date of exposure to $\cdot 001$ of a year. The day will be found in the section of measures, in the heading. The sidereal time can be inferred from the fourth column.

The *third* column gives the theoretical R.A. of plate centre. The inevitable deviations are given in the headings to the measures.

The *fourth* column gives the Hour Angle for the middle of the $6^{\text{min.}}$ exposure, which alone was measured. Clock errors have been applied to give Oxford sidereal time to $1^{\text{sec.}}$; but it was considered sufficient to give the result to the nearest minute.

The *fifth* column gives the durations of exposure. The image of the longest exposure alone was measured, the others serving merely for identification of stellar objects.

The *sixth* column indicates the observer who made the exposures at the telescope; see list on pp. xi. and xii. of the Introduction to Vol. I.

The *seventh* column indicates not only the class of plate, but the particular batch of plates from which it came, by means of the maker's number. The developer for this particular zone was mainly Eikonogen (E.); for about 30 plates other developers were used.

The *eighth* column shows the *réseau* used; see list on p. x.

The *ninth* column shows which micrometer of five ($\alpha, \beta, \gamma, \delta, \mu$) was used in measuring the plate, and which scale was used in the eye-piece. The instrument marked β_1 is mainly the same as β , but a new glass scale and objective by Zeiss have been adapted to it.

The *tenth* column gives the initials of the measurer of the plate; see list in Vol. I., pp. xi and xii, and Vol. IV., p. xviii.

The *eleventh* column gives the total number of stars measured. Occasionally (in the Milky Way) the number on the plate showing images with $6^{\text{min.}}$ and $3^{\text{min.}}$ exposure was so great, that only a limited number of stars were measured, viz. those showing images with $1^{\text{min.}}$ (which was substituted for the $20^{\text{sec.}}$ exposure for this purpose). Such cases, of which there are six in $+28^\circ$ zone, are marked with a $\dagger$; and the whole number of stars *counted* on each plate showing $6^{\text{min.}}$ and $3^{\text{min.}}$ exposures is given immediately below. In statistical questions the lower numbers are therefore to be used.

The *twelfth* column gives the ratio of the number measured to the number of stars shown in the corresponding area on Argelander's Chart, obtained by cutting out a mask of suitable size, placing it central over a given spot, and counting the star

images shown—approximate accuracy only being aimed at. Except in a few cases, this ratio exceeds 3·0.

The *thirteenth* column gives the number of stars in the corresponding region of the catalogues of the *Astronomische Gesellschaft* for 1875·0.

The *fourteenth* column shows the interval between the taking of the plate and its measurement, and may be of interest in discussing the fading of star images with time, or, in the light of a recent paper by Dr Thiele in No. 4224 of the *Astronomische Nachrichten*, possible slight change of position.

List of Plates in the present Volume, Centres in + 28° Dec.

No. of Plate.	Year and Fraction.	R.A. of Centre.	Hour Angle.	Exposures.	Observer.	Plate and Developer. (E. = Eikonogen.) (H. = Hydrokinone.)	Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B.D.	No. in A.G.C.	Interval between Exposure and Measure- ment.
		h m	h m	m m s									Months.
563	1894·876	0 0	0 9 W.	6, 3, 20	FB	Mawson 7724; H.	ii.	δ ix.	C	223	3·8	34	44
1253	1898·936	0 9	0 7 W.	6, 3, 60	FB	Rocket ; E.	vi.	δ ix.	C	246	3·5	44	2
1255	1898·964	0 18	0 12 W.	6, 3½, 60	C	,, ; E.	vi.	δ ix.	C	276	4·3	49	3
565	1894·882	0 27	0 7 W.	6, 3, 30	FB	Mawson 7724; H.	ii.	α vi.	C	200	3·0	55	43
2509	1907·060	0 36	2 7 W.	6, 3, 20	P	Rocket 7058; E.	vii.	γ viii.	TM	508	8·3	45	2
1256	1898·964	0 45	0 5 W.	6, 3, 60	FB	Rocket ; E.	vi.	γ viii.	TM	278	4·7	51	7
567	1894·882	0 54	0 31 W.	6, 3½, 20	FB	Mawson 7724; H.	ii.	α vi.	H	168	3·5	43	27
1257	1898·964	1 3	0 4 W.	6, 3, 60	C	Rocket ; E.	vi.	γ viii.	TM	265	4·6	37	6
1288	1899·071	1 12	1 9 W.	6, 3, 60	C	Rocket 2152; H.	vi.	γ viii.	TM	280	5·5	31	4
556	1894·873	1 21	0 15 E.	6, 3, 20	FB	Mawson 7724; H.	ii.	β vii.	C	206	3·9	28	27
557	1894·873	1 30	0 6 E.	6, 3, 20	FB	,, ,	ii.	α vi.	H	214	3·2	28	27
558	1894·873	1 39	0 5 W.	6½, 3, 20	FB	,, ,	ii.	α vi.	H	235	4·4	30	44
568	1894·882	1 48	0 2 W.	6, 3, 20	FB	,, ,	ii.	β vii.	C	212	3·3	39	35
559	1894·873	1 57	0 9 W.	6, 3, 20	FB	,, ,	ii.	α vi.	BG	286	5·1	32	63
1268	1899·063	2 6	0 14 W.	6, 3, 60	C	Rocket 2152; H.	vi.	γ viii.	TM	269	6·1	26	6
1289	1899·071	2 15	0 45 W.	7, 3, 60	FB	,, , ; E.	vi.	γ viii.	TM	343	5·2	44	6
1269	1899·063	2 24	0 15 W.	6, 3, 60	C	,, , ; E.	vi.	γ viii.	TM	196	3·5	28	6
1270	1899·066	2 33	0 20 E.	6, 3, 60	C	,, , ; H.	vi.	γ viii.	TM	166	3·4	28	13
1069	1896·947	2 42	0 7 E.	6, 3, 20	B	,, , ; ,	iii.	β vii.	F	193	4·3	21	19
2498	1907·003	2 51	0 46 E.	6, 3¼, 20	FB	Rocket 7058; E.	vii.	β¹ xiii.	R	291	9·1	27	½
1488	1900·044	3 0	0 56 W.	6, 3, 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	274	7·2	20	1
1273	1899·066	3 9	0 6 W.	6, 3, 60	C	Rocket (2152); H.	vi.	γ viii.	TM	130	4·3	19	7
1274	1899·066	3 18	0 17 W.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	187	4·5	27	6
1489	1900·044	3 27	0 47 W.	6, 3, 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	295	5·8	24	1
1316	1899·142	3 36	1 0 W.	6, 3, 60	C	Rocket 2152; E.	vi.	γ viii.	TM	509	8·3	26	5
1317	1899·142	3 45	1 9 W.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	297	4·5	30	5
1490	1900·044	3 54	0 41 W.	6, 3, 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	310	6·1	27	1
1321	1899·148	4 3	0 57 W.	6, 3, 60	FB	Rocket 2152; E.	vi.	γ viii.	TM	184	4·0	20	6
1322	1899·148	4 12	1 7 W.	6, 3, 60	FB	,, ,	vi.	γ viii.	TM	106	3·5	16	6
1329	1899·151	4 21	0 38 W.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	141	6·7	15	5
1330	1899·151	4 30	0 47 W.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	187	4·3	23	5
1301	1899·110	4 39	0 14 W.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	138	3·3	24	6
1300	1899·110	4 48	0 15 E.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	164	3·7	23	7
2505	1907·044	4 57	0 20 W.	6, 3, 20	P	Rocket 7058; E.	vii.	γ viii.	TM	179	4·2	18	2
1302	1899·110	5 6	0 6 W.	6, 3, 60	C	Rocket 2152; E.	vi.	γ viii.	TM	146	3·5	30	6
1303	1899·110	5 15	0 19 W.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	383	7·4	36	6
1070	1897·068	5 24	0 4 W.	6, 3, 20	B	,, ,	iii.	β vii.	C	363	5·0	26	17
2532	1907·156	5 33	1 53 W.	6, 3, 20	P	Rocket 7058; E.	vii.	γ viii.	TM	482	4·4	34	1

No. of Plate.	Year and Fraction.	R.A. of Centre.	Hour Angle.	Exposures.	Observer.	Plate and Developer. (E = Eikonogen.) (H. = Hydrokinone.)	Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B. D.	No. in A. G. C.	Interval between Exposure and Measure- ment.
		h m	h m	m m s									Months.
1495	1900·044	5 42	0 46 W.	6 3 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	977	7·3	44	2
2507	1907·044	5 51	0 12 W.	6 3 20	P	Rocket 7058; E.	vii.	γ viii.	TM	802	6·5	40	3
1733	1901·227	6 0	1 46 W.	6 3 20	FB	Rocket 3502; E.	vi.	γ viii.	TM	1931	15·8	49	71
2508	1907·044	6 9	0 15 W.	6 3 20	P	Rocket 7058; E.	vii.	γ viii.	TM	533	4·8	47	3
1734	1901·227	6 18	2 0 W.	6 3 20	FB	Rocket 3502; E.	vi.	α vi.	EG	1288	9·8	55	4
661	1895·107	6 27	0 10 W.	6 3 20	FB	Mawson ; H.	ii.	β vii.	C	531	4·3	57	36
1496	1900·044	6 36	0 42 W.	6 3 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	947	9·3	44	3
2516	1907·140	6 45	0 57 W.	6 3 20	P	Rocket 8590; E.	vii.	γ viii.	TM	852	8·1	46	2
1498	1900·044	6 54	1 8 W.	6 3 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	841	10·3	44	4
1499	1900·044	7 3	0 59 W.	6 3 60	FB	,, ,,	vi.	γ viii.	TM	976	12·0	37	85
1500	1900·044	7 12	1 31 W.	6 3 60	FB	,, ,,	vi.	γ viii.	TM	693	8·1	35	8
1501	1900·044	7 21	1 42 W.	6 3 60	FB	,, ,,	vi.	γ viii.	TM	695	7·7	35	8
2533	1907·156	7 30	0 22 W.	6 3 20	P	Rocket 7058; E.	vii.	γ viii.	TM	499	5·3	52	4
2511	1907·104	7 39	0 16 E.	6 3 20	P	,, ,,	vii.	γ viii.	TM	389	4·9	45	5
2534	1907·156	7 48	0 26 W.	6 3 20	P	,, ,,	vii.	γ viii.	TM	364	4·8	30	4
2535	1907·156	7 57	0 39 W.	6 3 20	P	,, ,,	vii.	γ viii.	TM	397	6·1	41	4
1525	1900·236	8 6	0 43 W.	6 3 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	216	3·7	34	10
1874	1901·830	8 15	2 30 E.	6 3 20	FB	Rocket(3502); E.	vi.	α vi.	EG	624	9·2	37	1
1528	1900·249	8 24	0 51 W.	6 3 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	137	2·6	26	10
1735	1901·227	8 33	0 16 W.	6 3 20	FB	Rocket 3502; E.	vi.	α vi.	M	376	7·5	24	$\frac{1}{2}$
1736	1901·227	8 42	0 30 W.	6 3 20	FB	,, ,,	vi.	α vi.	EG	371	7·6	26	1
1737	1901·227	8 51	0 51 W.	6 3 20	FB	,, ,,	vi.	α vi.	M	388	8·8	26	1
1738	1901·227	9 0	0 57 W.	6 3 20	FB	,, ,,	vi.	α vi.	EG	344	6·9	22	1
1763	1901·246	9 9	0 16 E.	6 3 20	FB	,, ,,	vi.	β vii.	BG	465	7·9	29	3
1764	1901·246	9 18	0 8 E.	6 5 20	FB	,, ,,	vi.	α vi.	M	411	8·5	22	3
1765	1901·246	9 27	0 1 E.	6 3 20	FB	,, ,,	vi.	β vii.	BG	405	7·0	34	5
1766	1901·246	9 36	0 6 W.	6 3 20	FB	,, ,,	vi.	α vi.	EG	490	10·4	21	3
1767	1901·246	9 45	0 14 W.	6 3 20	FB	,, ,,	vi.	α vi.	M	380	10·0	18	3
1768	1901·246	9 54	0 20 W.	6 3 20	FB	,, ,,	vi.	α vi.	EG	424	11·2	18	3
1739	1901·227	10 3	0 14 W.	6 3 26	FE	,, ,,	vi.	β vii.	BG	292	6·2	24	1
1740	1901·227	10 12	0 35 W.	6 3 20	FB	,, ,,	vi.	α vi.	M	237	5·2	22	1
1769	1901·246	10 21	0 21 W.	6 3 20	FB	,, ,,	vi.	β vii.	BG	430	11·0	21	3
1742	1901·227	10 30	0 54 W.	6 3 20	FB	,, ,,	vi.	α vi.	EG	240	5·5	20	1
717	1895·309	10 39	0 22 W.	6 3 20	FB	Mawson ; E.	iii.	β vii.	F	102	2·5	20	39
703	1895·178	10 48	1 52 E.	6 3 20	FB	,, ,,	ii.	β^1 xiii.	P	166	3·3	25	148
1538	1900·298	10 57	0 17 W.	6 3 60	FB	Rocket 2827; E.	vi.	γ viii.	TM	214	5·3	25	9
1743	1901·227	11 6	1 0 W.	6 3 20	FB	Rocket 3502; E.	vi.	α vi.	EG	172	4·8	24	2
1770	1901·246	11 15	0 12 E.	6 3 20	FB	,, ,,	vi.	α vi.	BG	292	6·9	18	4
1539	1900·298	11 24	0 6 W.	6 3 60	FB	Rocket 2827; E.	vi.	γ viii.	TM	207	4·9	22	9
1745	1901·227	11 33	0 8 W.	6 3 20	FB	Rocket 3502; E.	vi.	α vi.	EG	167	4·4	20	1
1553	1900·345	11 42	0 37 W.	6 3 60	FB	Rocket 2827; E.	vi.	α vi.	EG	312	7·6	26	4
1890	1901·939	11 51	0 21 E.	6 3 20	FB	Rocket 3502; E.	vi.	α vi.	EG	236	5·5	25	$\frac{1}{2}$
1772	1901·246	12 0	0 18 E.	6 3 20	FB	Rocket 3502; E.	vi.	α vi.	M	280	7·6	21	3
1773	1901·246	12 9	0 3 E.	6 3 20	FB	,, ,,	vi.	α vi.	M	243	7·8	19	3
1774	1901·246	12 18	0 4 W.	6 3 20	FB	,, ,,	vi.	α vi.	M	272	5·9	36	3
1775	1901·246	12 27	0 11 W.	6 3 20	FB	,, ,,	vi.	β vii.	BG	364	9·1	25	3
1776	1901·246	12 36	0 19 W.	6 3 20	FB	,, ,,	vi.	β vii.	BG	326	10·2	18	2
1777	1901·246	12 45	0 35 W.	6 3 20	FB	,, ,,	vi.	β vii.	BG	316	8·5	26	5
1778	1901·246	12 54	0 43 W.	6 3 20	FB	,, ,,	vi.	α vi.	EG	265	6·3	21	6
1779	1901·246	13 3	0 59 W.	6 3 20	FB	,, ,,	vi.	β vii.	BG	248	6·3	22	6
1786	1901·364	13 12	0 21 W.	6 3 20	FB	,, ,,	vi.	α vi.	BG	189	4·4	26	2
1787	1901·364	13 21	0 29 W.	6 3 20	FB	,, ,,	vi.	α vi.	EG	192	4·9	21	2

No. of Plate.	Year and Fraction.	R.A. of Centre.	Hour Angle.	Exposures.	Observer.	Plate and Developer. (E. = Eikonogen.) (H. = Hydrokinone.)	Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B.D.	No. in A.G.C.	Interval between Exposure and Measure- ment.
		h m	h m	m m s									Months.
1788	1901'364	13 30	0 38 W.	6, 3, 20	FB	Rocket 3502; E.	vi.	α vi.	EG	191	5'6	22	2
1557	1900'345	13 39	0 4 W.	6, 3 ¹ / ₆ , 60	FB	Rocket 2827; E.	vi.	β vii.	M	239	6'6	21	4
1780	1901'246	13 48	0 37 W.	6, 3, 20	FB	Rocket 3502; E.	vi.	α vi.	EG	312	7'8	23	3
1891	1901'939	13 57	2 8 E.	3, 3, 20	FB	Rocket 3982; E.	vi.	β vii.	BG	202	5'9	23	$\frac{1}{2}$
1789	1901'364	14 6	0 19 W.	6, 3, 4, 20	FB	Rocket 3502; E.	vi.	α vi.	M	185	4'5	21	2
1790	1901'364	14 15	0 27 W.	6, 3, 20	FB	,, ,	vi.	α vi.	M	168	4'2	21	2
1791	1901'364	14 24	0 36 W.	8, 3, 20	FB	,, ,	vi.	α vi.	M	204	4'5	27	2
1792	1901'364	14 33	0 44 W.	6, 3, 60	FB	,, ,	vi.	α vi.	M	197	4'3	27	2
1793	1901'364	14 42	0 58 W.	6, 3, 20	FB	,, ,	vi.	α vi.	BG	210	7'0	19	2
2469	1906'462	14 51	1 20 W.	6, 3, 20	P	Rocket 8205; E.	vii.	γ viii.	TM	208	5'2	22	8
2470	1906'463	15 0	1 36 W.	6, 3, 20	P	,, ,	vii.	γ viii.	TM	171	4'5	21	8
1800	1901'367	15 9	0 27 E.	6, 3, 20	FB	Rocket 3502; E.	vi.	α vi.	EG	111	3'1	17	2
1801	1901'367	15 18	0 18 E.	6, 3, 20	FB	,, ,	vi.	α vi.	EG	133	4'1	25	$\frac{1}{2}$
1813	1901'381	15 27	0 22 E.	8, 3, 20	FB	,, ,	vi.	β vii.	BG	328	7'0	32	1
1814	1901'381	15 36	0 11 E.	6, 3, 20	FB	,, ,	vi.	α vi.	EG	263	6'4	20	1
1815	1901'381	15 45	0 1 W.	6, 3, 20	FB	,, ,	vi.	β vii.	BG	246	4'4	22	4
1816	1901'381	15 54	0 6 W.	6, 3, 20	FB	,, ,	vi.	γ viii.	EG	222	4'3	25	4
1794	1901'364	16 3	0 6 E.	5 ¹ / ₂ , 3, 20	FB	,, ,	vi.	α vi.	M	253	5'3	24	2
1818	1901'479	16 12	0 14 W.	6, 3, 20	FB	,, ,	vi.	α vi.	EG	234	4'5	25	1
1795	1901'364	16 21	0 7 E.	6, 3, 20	FB	,, ,	vi.	α vi.	M	252	4'4	31	2
1831	1901'553	16 30	1 27 W.	6, 3, 20	FB	,, ,	vi.	β vii.	BG	291	8'1	26	2
1832	1901'553	16 39	1 34 W.	6, 3, 20	FB	,, ,	vi.	α vi.	EG	281	5'0	33	2
1841	1901'687	16 48	3 14 W.	6, 3, 20	FB	,, ,	vi.	α vi.	EG	242	3'7	40	2
1829	1901'548	16 57	2 5 W.	6, 3, 20	H	,, ,	vi.	α vi.	EG	291	4'2	39	2
1842	1901'687	17 6	3 14 W.	6, 3, 20	FB	,, ,	vi.	α vi.	EG	289	4'3	34	1
1825	1901'545	17 15	0 37 W.	6, 3, 20	FB	,, ,	vi.	α vi.	EG	306	4'9	38	2
1827	1901'545	17 24	1 15 W.	6, 3, 20	FB	,, ,	vi.	β vii.	BG	265	3'1	42	2
1819	1901'537	17 33	0 21 W.	6, 2 ¹ / ₃ , 3, 20	FB	Rocket 3670; E.	vi.	β vii.	BG	474	5'8	36	1
1821	1901'542	17 42	0 29 W.	6, 3, 20	FB	Rocket (3670); E.	vi.	α vi.	EG	284	3'4	43	2
1822	1901'542	17 51	0 47 W.	6 ¹ / ₂ , 3, 20	M	Rocket 3670; E.	vi.	α vi.	EG	380	5'4	39	2
1820	1901'537	18 0	0 33 W.	6 ¹ / ₂ , 3, 20	FB	Rocket (3502); E.	vi.	α vi.	EG	721	7'6	49	2
1567	1900'638	18 9	0 32 W.	7 ¹ / ₂ , 3, 60	FB	Rocket 2956; E.	vi.	α vi.	M	{ 462 [†] 1375 }	5'6	37	1
1823	1901'542	18 18	0 56 W.	6, 3, 20	M	Rocket (3502); E.	vi.	β vii.	BG	381	5'3	46	1
1824	1901'542	18 27	1 5 W.	6, 3, 20	FB	,, ,	vi.	β vii.	BG	423	6'1	47	2
1560	1900'619	18 36	0 43 W.	6, 3, 60	FB	Rocket 2956; E.	vi.	β vii.	SC	{ 551 [†] 1165 }	5'9	69	2
1561	1900'619	18 45	0 36 W.	6, 3, 60	FB	,, ,	vi.	α vi.	M	{ 686 [†] 1574 }	6'7	56	1
2551	1907'463	18 54	2 53 E.	6, 3, 20	FB	Rocket 7058; E.	vii.	γ viii.	TM	1597	12'8	67	2
1222	1898'753	19 3	0 31 W.	6, 3, 60	C	,, ,	vi.	γ viii.	TM	1268	9'2	79	102
1223	1898'753	19 12	0 40 W.	6, 3, 60	FB	,, ,	vi.	δ ix.	BG	{ 509 [†] 1027 }	3'4	79	4
474	1893'726	19 21	0 48 W.	6, 3, 20	FB	,, ,	ii.	α vi.	H	1104	9'0	83	54
524	1894'734	19 30	0 32 W.	6, 3, 20	FB	Ilford ; H.	ii.	α vi.	BG	942	9'3	79	42
2561	1907'539	19 39	0 11 E.	6, 3, 20	FB	Rocket 7058; E.	vii.	γ viii.	TM	1803	12'9	90	3
858	1895'731	19 48	0 15 W.	6, 3, 20	FB	Rocket 1162; E.	iii.	β vii.	F	1157	9'3	88	31
462	1893'695	19 57	0 12 W.	6, 3, 20	FB	,, ,	ii.	α vi.	M	598	4'4	75	55
463	1893'695	20 6	0 23 W.	6, 3, 20	FB	,, ,	ii.	β vii.	F	559	4'3	76	55
469	1893'723	20 15	0 8 W.	6, 3, 20	FB	,, ,	ii.	β vii.	C	542	4'6	81	54
198	1892'712	20 24	0 33 W.	9, 3, 20	FB	,, ,	ii.	β vii.	F	538	4'2	103	66
1227	1898'753	20 33	0 33 W.	6, 3, 60	FB	Rocket ; E.	vi.	δ ix.	C	{ 526 [†] 1298 }	4'3	76	4

No. of Plate.	Year and Fraction.	R.A. of Centre.	Hour Angle.	Exposures.	Observer.	Plate and Developer. (E. = Eikonogen.) (H. = Hydrokinone.)	Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B.D.	No. in A.G.C.	Interval between Exposure and Measure- ment.
		h m	h m	m m s									Months.
1228	1898.753	20 42	0 43 W.	6, 3, 60	C	Rocket ; E.	vi.	α vi.	M	$\left\{ \begin{smallmatrix} 431^\dagger \\ 1059 \end{smallmatrix} \right\}$	3.6	83	4
2562	1907.537	20 51	1 5 E.	6, 3, 20	FB	Rocket 7058; E.	vii.	γ viii.	TM	928	8.4	61	3
2563	1907.537	21 0	0 56 E.	6, 3, 20	FB	, , , ,	vii.	γ viii.	TM	787	8.0	82	4
1240	1898.830	21 9	0 19 W.	6, 3, 60	C	Rocket ; E.	vi.	γ viii.	TM	665	6.2	75	101
228	1892.808	21 18	0 28 E.	6, 3, 20	FB	Rocket ; E.	ii.	β vii.	F	452	5.6	64	66
1215	1898.739	21 27	0 32 W.	6, 3, 60	C	Rocket ; E.	vi.	γ viii.	TM	1115	11.0	90	104
2564	1907.537	21 36	1 15 E.	6, 3, 20	FB	Rocket 7058; E.	vii.	γ viii.	TM	612	6.4	68	3
2565	1907.537	21 45	1 9 E.	$6\frac{1}{2}, 3\frac{1}{2}, 20$	FB	, , , ,	vii.	γ viii.	TM	708	7.1	65	3
1460	1899.635	21 54	2 14 E.	6, 3, 60	FB	Rocket 2597; E.	vi.	γ viii.	TM	521	4.6	80	5
205	1892.731	22 3	0 8 W.	6, 3, 20	FB		ii.	β vii.	C	282	3.2	63	67
1216	1898.739	22 12	0 32 W.	6, 3, 60	FB	Rocket ; E.	vi.	α vi.	M	604	8.3	52	8
2566	1907.537	22 21	1 29 E.	6, 3, 20	FB	Rocket 7058; E.	vii.	γ viii.	TM	537	7.9	52	4
2567	1907.537	22 30	1 22 E.	6, 3, 20	FB	, , , ,	vii.	γ viii.	TM	552	6.9	54	1
2568	1907.537	22 39	1 16 E.	6, 3, 20	FB	, , , ,	vii.	γ viii.	TM	508	6.7	37	1
208	1892.731	22 48	0 59 W.	6, 3, 20	FB		ii.	α vi.	BG	367	4.3	33	69
213	1892.767	22 57	0 31 W.	$6\frac{1}{2}, 3, 20$	FB		ii.	γ viii.	TM	327	3.8	47	82
552	1894.873	23 6	0 13 E.	6, 3, 20	FB	Mawson 7724; H.	ii.	β vii.	F	204	3.2	36	41
553	1894.873	23 15	0 0	6, 3, 20	FB	, , , ,	ii.	α vi.	H	231	3.8	39	44
560	1894.876	23 24	0 34 E.	6, 3, 20	FB	, , , ,	ii.	α vi.	H	213	3.7	33	42
1481	1900.025	23 33	1 37 W.	$6\frac{3}{4}, 3\frac{1}{2}, 60$	FB	Rocket 2597; E.	vi.	γ viii.	TM	202	3.2	33	2
2606	1907.778	23 42	2 12 E.	6, 4, 20	FB	Rocket 6988; E.	vii.	γ viii.	TM	438	5.7	51	1
562	1894.876	23 51	0 21 E.	$6, 3\frac{1}{2}, 22$	FB	Mawson 7724; H.	ii.	α vi.	M	287	3.9	37	41

The total number of images measured is 65,808, which would have been increased to 70,141 if all the stars had been measured in cases marked †.

IV.—MEASUREMENT OF THE PHOTOGRAPHS.

(i.) *Description of the Micrometer.*

The general method of measurement is the same as at Greenwich, except that it was not found possible to obtain a "duplex" micrometer, and hence each plate was measured quite independently, and not in conjunction with overlapping plates.

The plates are placed in a frame movable in the direction of the y co-ordinate, and a microscope carried on a horizontal slide moves in the x co-ordinate.

For the measurement of the photographs, a glass diaphragm with two scales at right angles, divided so that one division corresponds to 0.01 of a *réseau* interval, or 3", is placed in the focal plane of the viewing microscope. The star's image is placed accurately at the intersection of the two scales, and the position of the *réseau* lines relatively to it is read off on the scales by estimation to 0.1 of a division, or 0.001 of a *réseau* interval, or 0".3 in the sky. Reference may be made to Plate II. in

Vol. I. of the Greenwich measures for the general appearance of the scale in the field of view. Readings are made where the scales cut the four *réseau* lines enclosing the star, and for perfect adjustment the two pairs of readings should be identical. Owing to errors of adjustment and to curvature of the plates, the pairs differ by small quantities which may amount to 0.003 (or 0".9), but should never exceed this. The mean is taken mentally, giving preference to the reading at the *réseau* line nearer the star, and the result is written down to three decimal places. (Sec *Mon. Not. R.A.S.*, lv. p. 105.)

(ii.) *The Arrangement of the Measures.*

The arrangement of the plates for the Astrographic Catalogue is such that the sky is divided into zones in declination 2° wide. The order in which the measures on each plate are printed is the same as that in which they were originally made.

The centres of the plates in the present zone are near the corners of the plates in the zones above and below.

In order to make sure of taking the whole of the sky, the plates in each zone overlap one another to the extent of 10^{mm} or more each way within the boundary of the *réseau*, so that, while every star appears on at least two plates, some may occur on three, four, or five plates. But there is a rough compensation in this arrangement, for if a star occurs on five plates it is only really well defined on one, where its image is nearly central; on the other four its image will be near the corner in every case, and therefore elongated.

The plates are measured in two positions, the plate being turned through 180° for the second set of measures. All the measures on a plate are made by the same person except that the *revision* of TM's measures (in cases of wrong entries, large discordances, etc.) was done at Oxford until 1903; recent measures, since 1906 October, were revised by himself at Doncaster. The differences $R - D$ for cases which do not call for remeasurement are collected for each plate under the headings $-.005$, $-.004$, $-.003$, . . . $.000$, $+.001$, . . . $+.005$, and give an indication of the personal error of bisection, and of the distribution of errors. Recently the limits adopted have been one unit less at each end.

When there is a strongly marked personality, the limits between which differences are accepted have often been modified. Thus, if the mean difference $R - D$ is $-.002$, the limits $-.007$ to $+.003$ replace $-.005$ to $+.005$.

For printing, the mean of D and R has been taken, to three figures only. To minimise corrections of the proof, no correction has been made when the terminal figure has, by accident, not been "raised."

V.—DETERMINATION OF PHOTOGRAPHIC MAGNITUDES.

With the rectangular co-ordinates of each star is given the diameter (d) of the image obtained with the 6^{m} exposure, the mean of the two determinations D and R

being taken. The unit is 0.001 of a *réseau* interval, or 0".3. Thus 12 denotes 3".6, and 61 denotes 18".3.

The general formula adopted provisionally is

$$\text{mag.} = a - b \sqrt{d},$$

and a discussion of the reasons for adopting it will be found in *Mon. Not. R.A.S.*, vol. lxv. pp. 755–775. The value of b for the measures in the present volume is taken as 1.02 for all plates with plate-numbers less than 1558, and 1.25 for all plates with numbers greater than 1558, while the constant a is determined for each plate from comparison of the magnitudes of the stars given in the Meridian Catalogues (marked with an asterisk after the Oxford No. on pp. 4–196) with the measured diameters.

VI.—MEASURES OF POSITION.

Personality of Measurers.

As already mentioned, the personality of the measurer is determined for each plate.

For any individual plate, the measurer and instrument can be found from columns 10 and 9 in the table of details given on pp. xii. to xv., and the date of measurement can also be inferred from columns 2 and 14 of the table; so that a suitable value for the personality can be deduced if for any purpose it is desired, from the following table:—

Determinations of Personality relevant to Measures in Zone +28°.

The mean excess of the R measure (reversed) over the D measure is tabulated in units of 0".03. The "error of bisection" is thus one-half the quantity tabulated.

Measurer.	Instrument.	Scale.	Year.	No. of Plates.	Mean R—D.	
					<i>x.</i>	<i>y.</i>
F	β	vii.	1897	1	R. Int. + .0044	R. Int. + .0008
	β	vii.	1898	8	+ .0021	— .0003
H	α	vi.	1897	3	— .0002	+ .0002
	α	vi.	1898	6	+ .0016	+ .0001
C	α	vi.	1897	2	— .0005	+ .0019
	β	vii.	1897	3	— .0005	— .0003
	β	vii.	1898	3	+ .0001	+ .0007
	δ	ix.	1898	2	+ .0016	+ .0005
	δ	ix.	1899	3	+ .0008	+ .0001
M	α	vi.	1898	7	— .0017	+ .0016
	α	vi.	1899	3	— .0022	+ .0019
	α	vi.	1900	3	— .0006	+ .0014
	α	vi.	1901	16	— .0018	+ .0021
	β	vii.	1900	1	— .0002	+ .0006
BG	α	vi.	1898	2	— .0009	+ .0012
	α	vi.	1899	1	— .0004	+ .0008
	α	vi.	1901	3	— .0017	+ .0012
	β	vii.	1901	15	— .0007	— .0003
	δ	ix.	1899	1	+ .0008	+ .0005

Determinations of Personality relevant to Measures in Zone +28°—continued.

Measurer.	Instrument.	Scale.	Year.	No. of Plates.	Mean R—D.	
					<i>x.</i>	<i>y.</i>
EG	<i>a</i>	vi.	1900	1	R. Int. — '0004	R. Int. + '0005
	<i>a</i>	vi.	1901	27	— '0004	+ '0006
	β	vii.	1901	1	'0000	— '0005
	γ	viii.	1901	1	— '0013	— '0006
SC	β	vii.	1900	1	+ '0008	— '0003
P	β	xiii.	1907	1	+ '0000	+ '0010
R	β	xiii.	1907	1	— '0021	— '0002
TM	γ	viii.	1899	24	— '0010	— '0002
	γ	viii.	1900	19	— '0003	+ '0003
	γ	viii.	1907	24	— '0007	+ '0001

This summary includes plates superseded by recent revision.

The 160 plates used in the present volume were measured by the following persons :—

H. C. Plummer . . .	P,	1 plates	H. F. Mullis . . .	M,	21 plates
H. A. Freeborn . . .	F,	7 „	B. G. C. Gray . . .	BG,	23 „
R. J. Horsley . . .	H,	6 „	E. A. Gray . . .	EG,	28 „
F. C. H. Carpenter . . .	C,	11 „	S. C. Cole . . .	SC,	1 „
T. J. Moore . . .	TM,	61 „	A. C. T. Roberts . . .	R,	1 „

Probable Errors of Measures.

See Introduction to Vol. I., p. xxx.

Errors of Réseaux.

The errors of the *réseaux* have been treated as small accidental errors, and not applied. For further particulars, see Introduction to Vol. I.

Errors of Division of the Glass Diaphragms of the Measuring Micrometer, and Optical Distortion of the Field.

Beyond making sure at the outset that the errors of division of the diaphragms were small enough to be neglected, little has been done to investigate them. They belong to a class of errors which may be neglected for the purposes of the general survey represented by the Astrographic Catalogue, though for such work as determinations of parallax it is no doubt necessary to take them into account. Every star occurs

on at least two plates : the division errors of the *réseau* are different in the two cases, and there is accordingly a general tendency to compensation : the division errors of the eye-piece scale are also different, and are also different in the two positions of the plate in which it is measured. Hence it was considered that they might safely be neglected.

VII.—PLATE CONSTANTS.

The plate constants were determined by the method and formulæ given in *Mon. Not. R.A.S.*, liv. p. 11 (Nov. 1893). The geometrical formulæ there given were, however, modified in practice as approximate formulæ, more convenient for the formation of tables. See the next section, pp. xxii–xxvi.

The R.A.'s and Decs. of the reference stars were taken from the Catalogues of the *Astronomische Gesellschaft*, brought up from 1875·0 to 1900·0, with the precessions and secular variations given in those Catalogues. For the plates in the present volume with centres at $+28^\circ$, and covering declinations $+27^\circ$ to $+29^\circ$ approximately, the stars are contained in the Cambridge Catalogue.

The provisional constants were computed as follows : having computed from the R.A.'s and Decs. of the stars given in the Meridian Catalogues, brought up to 1900·0, the standard co-ordinates, as given on pp. 193–232 of this volume, an “approximate solution” was first formed for each plate, by consideration of a few stars only. Thus, for the first plate of the series (centre $0^h 0^m +28^\circ$), it was readily seen that if the expression

$$\begin{aligned}\Delta\xi' &= +\cdot008 \xi' - \cdot001 \eta' - \cdot290 \\ \Delta\eta' &= +\cdot001 \xi' + \cdot008 \eta' - \cdot277\end{aligned}$$

were applied to the calculated standard co-ordinates, we should get results closely comparable with the measures. The following notation has been adopted in the work :—

ξ, η are the standard co-ordinates referred to the *plate-centre* as origin, and related to R.A. and Dec. by the formulæ

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta \\ \eta &= k \tan (\theta - D),\end{aligned}$$

where

$$\tan \theta = \sec (\alpha - A) \tan \delta,$$

and

$$\begin{aligned}k &= 687\cdot549 \text{ (reciprocal of circ. measure of } 5'), \\ \xi' &= \xi + 13, & \eta' &= \eta + 13,\end{aligned}$$

so that (ξ', η') are referred to a corner of the *réseau* and are always positive.

$$x' = \xi' + \Delta\xi', \quad y' = \eta' + \Delta\eta',$$

where $\Delta\xi'$ and $\Delta\eta'$ represent the above approximate solution. The actual measures are represented by x and y .

The differences $x - x'$ and $y - y'$ are then small, and linear expressions

$$x - x' = ax + by + c, \quad y - y' = dx + ey + f$$

are easily found to represent them. For an example of the process in detail, see the Introduction to Vol. I. The "approximate solution" is combined with this accurate solution to give

$$\xi' = x - Ax - By - C, \quad \eta' = y - Dx - Ey - F.$$

Finally, to get the standard co-ordinates (ξ, η) , from the measures we have—

$$\xi = x - 13 - Ax - By - C, \quad \eta = y - 13 - Dx - Ey - F,$$

where A, B, C, D, E, F are the provisional constants as printed.

Proper Motions are not available as yet for the great majority of the stars observed at Cambridge, and have thus not generally been applied. But in certain cases where the values of $x - x'$ and $y - y'$ were seen (by inspection) to be anomalous, the star was either omitted from the equations altogether (as in many cases of single observations in the Cambridge Catalogue), or an approximate proper motion was specially calculated and applied. It does not seem necessary to give details, since it became clear very early in the work that the plate constants which could be deduced at present would in any case be approximate only, and will be sensibly modified on revision. Discussion of them is reserved for the last volume.

As regards *differential refraction*, accurate formulæ are given for its effect in *Mon. Not. R.A.S.*, lvii. p. 135,* viz. :—

$$\Delta x = (x - X)t, \quad \Delta y = (y - Y)t,$$

where (X, Y) are the co-ordinates of the zenith, supposed projected on the plate, and

$$t(1 + xX + yY) = -\beta_0(1 + x^2 + y^2),$$

β_0 being the coefficient of refraction and x, y, X, Y being expressed in terms of the focal length of the telescope as unit. When $x=0, y=0, t=-\beta_0$, and the refraction at the plate centre is thus $\Delta x=\beta_0 X, \Delta y=\beta_0 Y$. Omitting this as a constant affecting the whole plate, the differential refraction is

$$\Delta x = tx - X(t + \beta_0), \quad \Delta y = ty - Y(t + \beta_0).$$

For the plates in the present volume it is sufficient to retain the first order of x and y , and thus—

$$t = -\beta_0(1 - xX - yY), \\ \Delta x = -\beta_0(1 + X^2)x - \beta_0XYy, \quad \Delta y = -\beta_0XYx - \beta_0(1 + Y^2)y.$$

These are the *effects* of refraction. To find *corrections* to x and y we must reverse

* There are, however, some unfortunate mistakes in this paper, of which a list is given on p. iv. of the Introduction to Vol. I.

the signs. The proper sign is easily determined if we remember that refraction *contracts* the field.

Zone + 28° Correction for Refraction in units of the sixth decimal place.

Hour Angle.	$\beta_0(1+X^2)$	β_0XY	$\beta_0(1+Y^2)$	Hour Angle.	$\beta_0(1+X^2)$	β_0XY	$\beta_0(1+Y^2)$
h m				h m			
0 0	278	0	332	2 0	316	54	355
10	278	4	332	10	323	60	359
20	279	7	332	20	330	67	365
30	280	11	333	30	339	75	371
40	282	15	334	40	349	84	378
50	284	19	335	50	360	94	385
1 0	287	23	337	3 0	372	104	394
10	290	27	339	10	384	116	404
20	294	32	341	20	398	129	415
30	298	37	344	30	414	143	429
40	304	42	347	40	431	160	444
50	309	48	350	50	451	178	461
2 0	316	54	355	4 0	472	198	481

Thus the corrections at hour angle 4^h 0^m are

$$\Delta x = +\cdot000472x \mp \cdot000198y,$$

$$\Delta y = \mp \cdot000198x + \cdot000481y,$$

taking the upper sign for plates taken in east hour angles.

Differential aberration gives rise to the *corrections**

$$\Delta x = + \kappa \cos CW . x,$$

$$\Delta y = + \kappa \cos CW . y,$$

where C is the centre of the plate and W a point in the ecliptic 90° behind the Sun; and the coefficient may be written, as in the Greenwich Introduction—

$$\kappa \cos CW = \cdot000100 \{ -\cdot40 \sin D \cos \odot - \cdot96 \cos D \sin (A - \odot) \},$$

where $\odot$ is the Sun's longitude; omitting a term $\cdot000004 \cos D \sin (A + \odot)$.

For the plates in the present volume $D = +28^\circ$, and this becomes

$$-\cdot000019 \cos \odot - \cdot000085 \sin (A - \odot).$$

It will make very little difference if we substitute the Sun's R.A. for his longitude; and then for a plate taken on the meridian at midnight $A - \odot = 180^\circ$, and the second term vanishes. For plates taken on the meridian at other times, the second term has the following values, in units of the sixth decimal place:—

6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Midnt.	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h
-85	-82	-74	-61	-42	-21	0	+21	+42	+61	+74	+82	+85

* Some confusion has arisen between *effect* and *correction* in the case both of differential refraction and aberration. On pp. xlv and xlv of the Greenwich Introduction the term "corrections" is in both cases used in the text where "effects" should be used. But the tables given are rightly labelled.

Table I. is a table of single entry, and when sufficiently expanded is easy to use in practice.

Table II. is a little more troublesome, as all tables of double entry are; but the quantities are small.

When X is known, it is quite easy then to get either η from Y or Y from η . In the second case we subtract the two quantities instead of adding. It is true we do not know Y , but we can infer it by inspection with sufficient accuracy to enter Table II.

To get ξ from X is another matter. There are several alternatives; and in particular we may either make use of existing logarithm tables, or prepare special tables for the purpose.

(a) *With logarithms.*—We have

$$\xi = \tan (\alpha - A) \cdot \{\sin D \cdot (k \cot D - \eta)\} \quad (1)$$

or

$$\xi = X(1 + \frac{1}{3}\mu^2 X^2) \{\mu \cos D \cdot \tan D_0 (k \cot D_0 - \eta)\} \quad (2).$$

These two forms, which are nearly the same theoretically, represent different practical methods. No. (1) assumes that we have tables of $\log \tan (\alpha - A)$ to every $1''$ or $0^s.1$, from $(\alpha - A) = 0^\circ$ to $1^\circ 15'$ (for zone 30°). The term in brackets depends simply on η : to form its logarithm we add $\log \sin D$ to $\log (k \cot D - \eta)$; *i.e.* for the present zone we add 9.6716093 to $\log (1293.092 - \eta)$.

In form No. (2) the only logarithm to be taken from the ordinary tables is that of X , which is now a number and not a trigonometrical function. The term $\log (1 + \frac{1}{3}\mu^2 X^2)$ is given in Table V., which is the same for all zones. The term in brackets is slightly modified to admit of the ready construction of special tables, as follows:—If instead of $(1293.092 - \eta)$ we had $(1293.100 - \eta)$, then the logarithms of this quantity for $\eta = 0.0, 0.1, 0.2, 0.3$, etc., etc., can be read directly from the tables without interpolation. Now, representing the corresponding value of D by D_0 , which is very nearly the same as D , we have

$$\sin D (k \cot D - \eta) = \sin D \cdot \frac{k \cot D - \eta}{k \cot D_0 - \eta} (k \cot D_0 - \eta),$$

in the fractional term of which we may give η its mean value zero to a very close approximation; and we thus obtain the form No. (2). Having formed in Table III. the value of

$$\text{const} + \log \{\mu \cos D \cdot \tan D_0 \cdot (k \cot D_0 - \eta)\}$$

for multiples of 0.1000 , the correction for the fractional part of η beyond the first place is given in Table IV. The constant is added to Table III., so that Table IV. may always be positive.

Thus ξ is found from the formula

$$\begin{aligned} \log \xi &= \log X \\ &+ \text{Table III.} \quad (\text{Arg. } \eta \text{ to } 0.1) \\ &+ \text{Table IV.} \quad (\text{Arg. remainder of } \eta) \\ &+ \text{Table V.} \quad (\text{Arg. } X). \end{aligned}$$

(b) *Without logarithms.*—The above computation is quite simple, and it may seem unnecessary to go further. But sometimes logarithm tables are not at hand; or for other reasons it may be convenient to be able to form ξ from X without reference to any books beyond the present volume. Accordingly tables have been arranged by means of which ξ may be found from X by simple processes of multiplication and interpolation.

When X is constant we have

$$\xi = M - N\eta,$$

so that the differences in η are constant. Hence, if for any given value of X we find ξ for two values of η —say $\eta = +13.0$ and $\eta = -13.0$ —then by uniform graduation we can fill in values of ξ for all other values of η , to any desired limit of subdivision.

When η is constant we have

$$\xi = MX(1 + \frac{1}{3}\mu^2 X^2),$$

so that the differences are not quite uniform. But if we have values of X for every *réseau* interval, we can safely interpolate, as Tables IX.–XIII. will show.

In interpolating, however, it is necessary to be careful of the $X Y$ term, which is only eliminated by first obtaining values for ξ with a very nearly correct value of one of the factors. For this purpose it is easiest to choose Y . Hence the subdivision has been carried further for Y than for X .

As an example of both calculations, take star No. 73587 on p. (192), viz.,—

	R.A.	Dec.
Cambridge 14392	23 ^h 53 ^m 57 ^s .13	+ 28° 54' 48".3 (1875.0)
	23 55 13.51	+ 29 3 9.5 (1900.0)

$$\therefore X = +253^s.51/20^s = +12.6755, \quad Y = +3789''.5/300'' = +12.6317.$$

Y = +12.6317	log X = 1.102965
Table I. = + 485	Table III. = 9.941645
Table II. = + 26	Table IV. = 9
η = Sum = +12.6828	Table V. = 49
$\eta' = \eta + 13 = 25.6828$	log ξ = Sum = 1.044668
	$\xi = +11.0832$
	$\xi' = \xi + 13 = 24.0832$

Without logarithms, the computation for ξ would stand thus: for $Y = +12.6317$ we refer to Table XIII., which is headed from $Y = +12.0$ to $Y = +13.0$; and the precept is

$$\xi = X - \frac{1}{8}X - \text{following table.}$$

Thus, since

	$X = +12.6755$
	$\frac{1}{8}X = 1.5844$
Table XIII. for $X = 12.0$, $Y = +12.632$	$= 74$
Add for the .68 of X	4
Total to be subtracted	$= 1.5922$
	$\xi = +11.0833$

A difference of .0001 cannot be avoided. Indeed, unless we go to five decimal places, we may occasionally have differences of .0002 between the results of different methods.

To get R.A. and Dec. from the Measures.

First form the standard co-ordinates ξ and η from the formulæ—

$$\begin{aligned}\xi &= x - 13 - Ax - By - C, \\ \eta &= y - 13 - Dx - Ey - F.\end{aligned}$$

Then, *by logarithms*, to $\log \xi$ add

Table VI.	entering with argument ξ .
Table VII.	„ „ „ η to 0.1.
Table VIII.	„ „ „ η remainder.

The sum is $\log X$.

Since Tables III. and IV. are formed for argument η , we might have used them, but they would have to be *subtracted*; and Table V. could be adapted for argument ξ : but it is simpler to form new Tables VI., VII., and VIII., which are additive.

Having found X , we can now enter Table I. with X as argument, and place this quantity below η to be subtracted. By inspection we obtain a sufficiently close value of Y to enter Table II.

Without logarithms we can use Tables XIV. to XIX.

As an example, take No. 73587, the Oxford measure of the same star as used in the example on the previous page—

$x =$	23.921	$y =$	25.585
$- Ax =$	$- .1843$	$- Dx =$	$+ .0643$
$- By =$	$- .0642$	$- Ey =$	$- .1988$
$- C =$	$+ .4086$	$- F =$	$+ .2329$
$\xi =$	24.0811	$\eta' =$	25.6834
$\xi =$	+11.0811	$\eta =$	+12.6834

With logarithms :—

$\log \xi = 1.044583$ Table VI. = 22 Table VII. = 0.058211 Table VIII. = 65 $\log X = 1.102881$ $X = + 12.6731$ $= + 253^s.46$ R.A. = $23^h 55^m 13^s.46$	$\eta = + 12.6834$ Table I. = - 0.485 Table II. = - 0.026 $Y = + 12.6323$ $= + 1^\circ 3' 9''.7$ $D = + 28 \ 0 \ 0$ $\text{Dec.} = + 29^\circ 3' 9''.7$
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The difference between this and the place on p. xxiv is the difference between the Oxford photographic position and the Cambridge A.G.C. place.

Without logarithms. Tables XIV. to XIX. The computation for X, from ξ , without using logarithms by Table XIX., is :—

$\xi = 11.0$, $\eta = + 12.68$ in Table XIX. $\xi = .081$ in same line	$\xi = + 11.0811$ $\frac{1}{7}\xi = 1.5830$ 0090 0 $X = + 12.6731$
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H. H. TURNER.

UNIVERSITY OBSERVATORY, OXFORD.

1907 Dec. 31.

OXFORD ASTROGRAPHIC CATALOGUE

T A B L E S

FOR THE CONVERSION OF

R.A. AND DEC. INTO STANDARD CO-ORDINATES

AND OF

STANDARD CO-ORDINATES INTO R.A. AND DEC.

FOR PLATES WITH CENTRES IN

DEC. $+ 28^{\circ}$

BOTH WITH AND WITHOUT LOGARITHMS

TABLE II.—For $D = +28^\circ$.

$$\Delta_2 Y = \mu^2 \left\{ \frac{Y^3}{3} + \frac{1}{2} X^2 Y \cos 2 D \right\} = \cdot 000000705 Y^3 + \cdot 000000592 X^2 Y.$$

Additive to Y with same sign as Y to get η . Additive to η with opposite sign to η to get Y .

$\frac{Y}{\text{or } \eta}$	X.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	10.5	11.	11.5	12.	12.5	13.	13.5	14.	14.5	15.	$\frac{X}{\text{or } \eta}$
		Unit = .0001 of a Reseau Interval.																					
R.I.																							R.I.
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.5
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1.0
1.5	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.5
2.0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	2.0
2.5	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	2.5
3.0	0	0	0	0	1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	4	3.0
3.5	0	0	0	1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	5	5	5	5	3.5
4.0	1	1	1	1	1	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	4.0
4.5	1	1	1	1	1	1	1	2	2	2	3	3	4	4	4	5	5	5	5	6	6	7	4.5
5.0	1	1	1	1	1	2	2	2	3	3	4	4	4	5	5	6	6	6	7	7	8	8	5.0
5.5	1	1	1	2	2	2	2	3	3	4	4	5	5	5	6	6	7	7	8	8	9	9	5.5
6.0	2	2	2	2	2	2	3	3	4	4	5	6	6	6	7	7	8	8	9	9	10	10	6.0
6.5	2	2	2	2	3	3	3	4	4	5	6	6	7	7	8	8	9	9	10	10	10	11	6.5
7.0	2	3	3	3	3	4	4	4	5	6	7	7	8	8	9	9	10	10	11	11	11	12	7.0
7.5	3	3	3	3	4	4	4	5	6	6	7	8	8	9	9	10	11	11	12	13	13	13	7.5
8.0	4	4	4	4	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	14	8.0
8.5	4	4	5	5	5	6	6	7	8	8	9	10	11	11	12	12	13	13	14	15	15	15	8.5
9.0	5	5	6	6	6	7	7	8	9	10	11	11	12	12	13	14	14	15	16	16	17	17	9.0
9.5	6	6	7	7	7	8	8	9	10	11	12	12	13	13	14	15	15	17	18	18	18	18	9.5
10.0	7	7	8	8	8	9	9	10	11	12	13	14	14	15	16	16	17	18	19	20	20	20	10.0
10.5	8	8	9	9	9	10	10	11	12	13	14	15	15	16	17	18	19	20	21	22	22	22	10.5
11.0	10	10	10	10	11	11	12	13	14	15	16	17	17	18	19	20	20	21	22	23	24	24	11.0
11.5	11	11	11	11	12	12	13	14	15	16	17	18	19	20	21	22	22	23	24	25	26	26	11.5
12.0	12	12	13	13	13	14	15	16	17	18	19	20	21	22	22	23	24	25	26	27	28	28	12.0
12.5	14	14	15	15	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	31	12.5
13.0	16	16	16	16	17	17	18	19	21	22	23	24	25	26	27	28	29	30	31	32	33	33	13.0

For $D = + 28^\circ$ and η Positive.

Add to log. X (with Table V.) to get log. ξ .

TABLE III.

Argument, η to 0.1. *Not to be interpolated.*

η		0	1	2	3	4	5	6	7	8	9
+12	9.94	1849	1815	1781	1747	1713	1679	1645	1612	1577	1544
+11	9.94	2188	2154	2120	2086	2052	2018	1984	1951	1917	1883
+10	9.94	2526	2493	2459	2425	2391	2357	2323	2289	2255	2222
+9	9.94	2865	2831	2797	2763	2729	2695	2662	2628	2594	2560
+8	9.94	3203	3169	3135	3101	3068	3034	3000	2966	2932	2898
+7	9.94	3540	3507	3473	3439	3405	3372	3338	3304	3270	3237
+6	9.94	3878	3844	3811	3777	3743	3709	3675	3642	3608	3574
+5	9.94	4215	4182	4148	4114	4081	4047	4013	3979	3946	3912
+4	9.94	4552	4519	4485	4451	4417	4384	4350	4317	4283	4249
+3	9.94	4889	4856	4822	4788	4755	4721	4687	4654	4620	4586
+2	9.94	5226	5192	5158	5125	5091	5058	5024	4990	4957	4923
+1	9.94	5562	5528	5495	5461	5428	5394	5360	5327	5293	5259
0	9.94	5898	5864	5831	5797	5764	5730	5696	5663	5629	5596

TABLE IV.

Add for remainder of η .

	000	001	002	003	004	005	006	007	008	009
09	7	6	6	6	5	5	5	4	4	4
08	10	10	9	9	9	8	8	8	7	7
07	13	13	13	12	12	12	11	11	11	10
06	17	17	16	16	15	15	15	14	14	14
05	20	20	20	19	19	19	18	18	18	17
04	24	23	23	23	22	22	22	21	21	21
03	27	27	26	26	26	25	25	25	24	24
02	30	30	30	29	29	29	28	28	28	27
01	34	33	33	33	32	32	32	31	31	31
00	37	37	36	36	36	35	35	35	34	34

Unit = .000001

For $D = + 28^\circ$ and η Negative.

Add to log. X (with Table V.) to get log. ξ .

TABLE III.

Argument, η to 0.1. *Not to be interpolated.*

η		0	1	2	3	4	5	6	7	8	9
-0	9.94	5898	5932	5965	5999	6032	6066	6099	6133	6167	6200
-1	9.94	6234	6267	6301	6334	6368	6402	6435	6469	6502	6536
-2	9.94	6569	6603	6636	6670	6703	6737	6770	6804	6837	6871
-3	9.94	6904	6938	6971	7005	7038	7072	7105	7139	7172	7206
-4	9.94	7239	7273	7306	7340	7373	7407	7440	7474	7507	7541
-5	9.94	7574	7607	7641	7674	7708	7741	7775	7808	7842	7875
-6	9.94	7908	7942	7975	8009	8042	8076	8109	8142	8176	8209
-7	9.94	8243	8276	8309	8343	8376	8410	8443	8476	8510	8543
-8	9.94	8577	8610	8643	8677	8710	8743	8777	8810	8843	8877
-9	9.94	8910	8944	8977	9010	9044	9077	9110	9144	9177	9210
-10	9.94	9244	9277	9310	9344	9377	9410	9444	9477	9510	9543
-11	9.94	9577	9610	9643	9677	9710	9743	9777	9810	9843	9876
-12	9.94	9910	9943	9976	0009	0043	0076	0109	0143	0176	0209
-12	9.95										

TABLE IV.

Add for remainder of η .

	000	001	002	003	004	005	006	007	008	009
00	37	37	38	38	38	39	39	39	40	40
01	40	41	41	41	42	42	42	43	43	43
02	44	44	44	45	45	45	46	46	46	47
03	47	47	48	48	48	49	49	49	50	50
04	50	51	51	51	52	52	52	53	53	53
05	54	54	54	55	55	55	56	56	56	57
06	57	57	58	58	59	59	59	60	60	60
07	61	61	61	62	62	62	63	63	63	64
08	64	64	65	65	65	66	66	66	67	67
09	67	68	68	68	69	69	69	70	70	70

Unit = .000001.

*All Zones.*For $D = + 28^\circ$.

TABLE V.

$$\frac{1}{3} \mu^2 \log_{10} e \times X^2 = .000000306 X^2.$$

Add to log. X (with Tables III., IV.) to get log. ξ .

X.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0	0	0	1	1	1	1	1	1	1
2	1	1	1	2	2	2	2	2	2	3
3	3	3	3	3	4	4	4	4	4	5
4	5	5	5	6	6	6	6	7	7	7
5	8	8	8	9	9	9	10	10	10	11
6	11	11	12	12	13	13	13	14	14	15
7	15	15	16	16	17	17	18	18	19	19
8	20	20	21	21	22	22	23	23	24	24
9	25	25	26	26	27	28	28	29	29	30
10	31	31	32	32	33	34	34	35	36	36
11	37	38	38	39	40	40	41	42	43	43
12	44	45	46	46	47	48	49	49	50	51
13	52	53	53	54	55	56	57	58	58	59
14	60	61	62	62	63	64	65	66	67	68
15	69	70	71	72	73	73	74	75	76	77

Unit = .000001.

TABLE VI.

$$\text{Const.} - \frac{1}{3} \mu^2 \log_{10} e \cdot \sec^2 D \cdot \xi^2$$

$$= .000070 - .000000393 \xi^2.$$

Add to log. ξ to get log. X.

ξ .	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	ξ .
0	70	70	70	70	70	70	70	70	70	70	0
1	70	70	69	69	69	69	69	69	69	69	1
2	68	68	68	68	68	68	67	67	67	67	2
3	66	66	66	66	65	65	65	65	64	64	3
4	64	63	63	63	62	62	62	61	61	61	4
5	60	60	59	59	59	58	58	57	57	56	5
6	56	55	55	54	54	53	53	52	51	51	6
7	51	50	50	49	48	48	47	47	46	45	7
8	45	44	44	43	42	42	41	40	40	39	8
9	38	37	37	36	35	35	34	33	32	31	9
10	31	30	29	28	28	27	26	25	24	23	10
11	22	22	21	20	19	18	17	16	15	14	11
12	13	12	11	11	10	9	8	7	6	5	12

Unit = .000001.

For $D = + 28^\circ$ and η **Positive**.

Add to log. ξ (with Table VI.) to get log. X.

TABLE VII.

Argument η to 0.1. *Not to be interpolated.*

η		·0	·1	·2	·3	·4	·5	·6	·7	·8	·9
+12	0.05	8007	8041	8075	8109	8143	8177	8211	8245	8279	8313
+11	0.05	7668	7702	7736	7770	7804	7838	7872	7906	7939	7973
+10	0.05	7330	7364	7398	7432	7465	7499	7533	7567	7600	7634
+9	0.05	6992	7026	7060	7093	7127	7161	7194	7228	7262	7296
+8	0.05	6654	6688	6722	6755	6788	6822	6856	6890	6924	6958
+7	0.05	6316	6350	6383	6417	6450	6484	6519	6553	6586	6620
+6	0.05	5978	6012	6045	6079	6113	6147	6181	6215	6248	6282
+5	0.05	5640	5674	5709	5743	5776	5810	5843	5877	5911	5945
+4	0.05	5303	5336	5371	5405	5439	5473	5506	5540	5573	5607
+3	0.05	4967	5001	5034	5068	5102	5136	5169	5203	5236	5269
+2	0.05	4631	4665	4698	4732	4765	4799	4832	4866	4899	4933
+1	0.05	4294	4328	4361	4395	4428	4462	4495	4529	4563	4597
+0	0.05	3958	3992	4025	4059	4092	4126	4160	4194	4227	4261

TABLE VIII.

Add for Remainder of η .

	·000	·001	·002	·003	·004	·005	·006	·007	·008	·009
·09	67	68	68	68	69	69	69	70	70	70
·08	64	64	65	65	65	66	66	66	67	67
·07	61	61	61	62	62	62	63	63	63	64
·06	57	57	58	58	59	59	59	60	60	60
·05	54	54	54	55	55	55	56	56	56	57
·04	50	51	51	51	52	52	52	53	53	53
·03	47	47	48	48	48	49	49	49	50	50
·02	44	44	44	45	45	45	46	46	46	47
·01	40	41	41	41	42	42	42	43	43	43
·00	37	37	38	38	38	39	39	39	40	40

Unit = .000001.

For $D = + 28^\circ$ and η **Negative**.

Add to log. ξ (with Table VI.) to get log. X.

TABLE VII.

Argument, η to 0.1. *Not to be interpolated.*

η		·0	·1	·2	·3	·4	·5	·6	·7	·8	·9
-0	0.05	3958	3924	3891	3857	3824	3790	3756	3722	3689	3655
-1	0.05	3622	3588	3555	3521	3488	3454	3421	3387	3353	3319
-2	0.05	3287	3253	3220	3186	3153	3119	3086	3052	3019	2985
-3	0.05	2951	2917	2884	2850	2817	2784	2751	2717	2684	2650
-4	0.05	2617	2582	2549	2515	2482	2449	2416	2382	2349	2315
-5	0.05	2282	2248	2215	2181	2148	2114	2081	2047	2014	1981
-6	0.05	1948	1914	1881	1847	1814	1780	1747	1713	1680	1646
-7	0.05	1613	1580	1547	1513	1480	1446	1413	1379	1346	1312
-8	0.05	1279	1246	1213	1179	1146	1112	1079	1046	1012	0978
-9	0.05	0945	0912	0879	0845	0812	0779	0746	0712	0679	0646
-10	0.05	0612	0579	0546	0512	0479	0446	0413	0379	0346	0312
-11	0.05	0279	0245	0212	0179	0146	0112	0079	0046	0013	
-11	0.04										9979
-12	0.04	9946	9913	9880	9846	9813	9779	9746	9713	9680	9647

TABLE VIII.

Add for Remainder of η .

	·000	·001	·002	·003	·004	·005	·006	·007	·008	·009
·00	37	37	36	36	36	35	35	35	34	34
·01	34	33	33	33	32	32	32	31	31	31
·02	30	30	30	29	29	29	28	28	28	27
·03	27	27	26	26	26	25	25	25	24	24
·04	24	23	23	23	22	22	22	21	21	21
·05	20	20	20	19	19	19	18	18	18	17
·06	17	17	16	16	15	15	15	14	14	14
·07	13	13	13	12	12	12	11	11	11	10
·08	10	10	9	9	9	8	8	8	7	7
·09	7	6	6	6	5	5	5	4	4	4

Unit = .000001.

TABLE IX.—For D = + 28°.

From Y = - 13°0 to Y = - 8°5. $\xi = X - \frac{1}{10}X - \frac{1}{200}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
- 8°5	0063	0125	0188	0250	0312	0375	0436	0498	0559	0621	0683	0743	0804	0863	0923	- 8°5
6	062	124	185	247	308	370	431	492	552	614	675	735	795	853	913	6
7	061	122	183	244	304	366	426	486	546	607	668	727	786	844	903	7
8	060	121	181	241	301	362	422	481	540	601	660	718	777	834	892	8
- 8°9	060	119	179	239	297	358	417	475	534	594	653	710	768	825	882	- 8°9
- 9°0	0059	0118	0177	0236	0294	0354	0412	0470	0528	0587	0645	0702	0759	0815	0872	- 9°0
1	058	117	175	233	291	350	407	465	522	580	637	694	750	806	862	1
2	058	115	173	231	287	346	402	459	516	573	630	686	741	796	852	2
3	057	114	171	228	284	342	398	454	510	567	622	677	732	787	841	3
4	056	112	169	225	280	338	393	449	504	560	615	669	723	777	831	4
5	056	111	167	223	277	334	388	443	498	553	607	661	715	768	821	5
6	055	110	164	220	274	329	383	437	491	546	600	653	706	758	811	6
7	054	108	162	216	270	325	378	432	485	539	592	645	697	749	801	7
8	053	107	160	214	267	321	374	427	479	533	585	636	688	739	790	8
- 9°9	053	105	158	212	263	317	369	421	473	526	577	628	679	730	780	- 9°9
- 10°0	0052	0104	0156	0208	0260	0313	0364	0416	0467	0519	0570	0620	0670	0720	0770	- 10°0
1	051	103	154	206	257	309	359	410	461	512	562	612	661	710	760	1
2	051	101	152	203	253	305	354	405	455	505	555	604	652	701	749	2
3	050	100	150	200	250	301	350	400	449	498	547	595	644	691	739	3
4	049	099	148	197	246	297	345	394	443	491	539	587	635	682	729	4
5	049	098	146	195	243	293	340	389	437	485	533	579	626	672	719	5
6	048	096	144	192	240	288	335	384	430	478	525	571	617	662	708	6
7	047	095	142	189	236	284	330	378	424	471	518	563	608	653	698	7
8	046	094	140	187	233	280	326	373	418	464	509	554	600	643	688	8
- 10°9	046	092	138	184	229	276	321	367	412	457	502	546	591	634	677	- 10°9
- 11°0	0045	0091	0136	0181	0226	0272	0316	0362	0406	0450	0495	0538	0582	0624	0667	- 11°0
1	044	090	134	179	223	268	312	357	400	443	487	530	573	615	657	1
2	044	088	132	176	219	264	308	351	394	436	479	522	564	605	647	2
3	043	087	130	174	216	259	302	345	387	430	472	513	555	596	636	3
4	043	085	128	171	213	256	298	340	381	423	464	505	546	586	626	4
5	042	084	126	168	209	252	293	335	375	416	457	497	538	577	616	5
6	041	083	124	165	206	247	288	329	369	409	449	489	529	567	606	6
7	041	081	121	162	202	243	283	324	363	402	442	481	520	558	596	7
8	040	080	119	160	199	239	278	318	357	396	434	472	511	548	585	8
- 11°9	040	078	117	156	195	234	273	312	350	389	427	464	502	539	575	- 11°9
- 12°0	0039	0077	0115	0154	0192	0231	0269	0307	0344	0382	0419	0456	0493	0529	0565	- 12°0
1	038	076	113	151	189	227	264	302	338	375	413	448	484	519	555	1
2	038	074	111	149	185	222	259	296	332	368	405	440	475	510	544	2
3	037	073	109	146	182	219	255	291	326	362	398	432	466	500	534	3
4	036	071	107	143	178	214	250	285	320	355	390	423	457	491	524	4
5	036	070	105	141	175	210	245	280	314	348	383	416	449	481	514	5
6	035	069	103	138	172	206	240	274	307	341	375	407	440	471	503	6
7	034	067	101	135	168	202	235	269	301	334	367	399	431	462	493	7
8	033	066	099	132	165	198	231	263	295	328	360	391	422	452	483	8
- 12°9	033	065	097	130	162	194	226	258	289	321	353	383	413	443	472	- 12°9
- 13°0	0032	0063	0095	0127	0158	0190	0221	0252	0283	0314	0345	0374	0404	0433	0462	- 13°0

TABLE X.—For $D = +28^\circ$.From $Y = -8.5$ to $Y = 0.0$. $\xi = X - \frac{1}{9}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
0.0	0059	0119	0178	0238	0297	0355	0414	0473	0531	0590	0648	0706	0764	0820	0877	0.0
— 0.1	058	118	176	235	293	351	409	468	525	583	641	698	755	810	867	— 0.1
2	058	116	174	233	290	347	405	462	519	576	633	690	746	801	857	2
3	057	115	172	230	287	343	400	457	513	570	626	681	737	791	846	3
4	057	113	170	227	283	339	395	451	507	563	618	673	728	782	836	4
5	056	112	168	225	280	335	391	446	501	556	611	665	719	772	826	5
6	055	111	166	221	276	331	386	441	494	549	603	657	710	763	816	6
7	055	109	164	219	273	327	381	435	488	542	596	649	702	754	806	7
8	054	108	162	216	269	322	376	430	482	536	588	640	693	744	795	8
— 0.9	054	106	160	213	266	319	372	424	476	529	581	632	684	735	785	— 0.9
— 1.0	0053	0105	0158	0211	0263	0315	0367	0419	0470	0522	0573	0624	0675	0725	0775	— 1.0
1	052	104	156	208	259	310	362	413	464	515	566	616	666	715	765	1
2	052	102	154	205	255	306	357	408	458	508	558	608	657	705	754	2
3	051	101	152	203	253	303	353	402	452	501	550	599	648	696	744	3
4	050	100	150	200	249	298	348	397	446	494	543	591	639	686	734	4
5	050	099	148	197	245	294	343	391	439	488	536	583	630	677	724	5
6	049	097	145	194	242	289	337	385	433	481	528	575	621	667	713	6
7	048	096	143	191	238	285	333	380	427	474	521	567	613	658	703	7
8	047	095	141	189	235	281	328	375	421	467	513	558	604	648	693	8
— 1.9	047	093	139	186	231	277	324	370	415	461	506	550	595	639	682	— 1.9
— 2.0	0046	0092	0137	0183	0228	0273	0319	0364	0409	0454	0498	0542	0586	0629	0672	— 2.0
1	045	091	135	180	225	269	314	359	403	447	491	534	577	619	662	1
2	045	089	133	178	221	265	309	353	396	440	483	526	568	610	652	2
3	044	088	131	176	218	261	305	348	391	434	476	517	559	600	641	3
4	043	086	129	173	214	257	300	342	385	427	468	509	550	591	631	4
5	043	085	127	171	211	253	295	337	378	420	461	501	542	581	621	5
6	042	084	125	168	207	248	290	332	372	413	453	493	533	571	611	6
7	041	082	123	165	204	244	285	326	365	406	446	485	524	562	601	7
8	040	081	121	162	200	240	281	321	360	400	438	476	515	552	590	8
— 2.9	040	079	119	158	197	236	276	315	354	392	430	468	506	543	580	— 2.9
— 3.0	0039	0078	0117	0155	0193	0232	0271	0309	0347	0386	0423	0460	0497	0533	0570	— 3.0
1	038	077	115	153	190	228	266	304	341	379	416	452	488	524	560	1
2	038	075	113	150	187	224	261	299	335	372	408	444	479	514	549	2
3	037	074	111	148	184	220	257	293	329	365	401	435	470	505	539	3
4	036	072	109	145	180	216	252	288	323	358	393	427	461	495	529	4
5	036	071	107	143	178	212	247	282	317	352	386	420	453	486	519	5
6	035	070	104	139	174	208	242	277	311	345	378	411	444	476	508	6
7	034	068	102	136	170	204	238	271	304	338	371	403	435	467	498	7
8	033	067	100	134	167	200	233	266	298	331	363	394	426	457	488	8
— 3.9	033	065	098	131	164	196	228	261	292	324	356	387	418	448	477	— 3.9
— 4.0	0032	0064	0096	0128	0160	0192	0223	0255	0286	0317	0348	0379	0409	0438	0467	— 4.0
1	031	063	094	125	156	187	218	249	280	310	340	370	399	428	457	1
2	031	061	092	122	152	183	213	244	274	303	333	362	391	419	447	2
3	030	060	090	120	149	179	208	238	267	297	326	354	382	409	436	3
4	029	058	087	116	145	175	204	233	261	290	318	345	373	400	426	4
5	029	057	086	115	142	171	199	228	255	283	311	338	365	391	416	5
6	028	056	084	112	139	166	194	222	249	276	303	329	355	381	406	6
7	027	054	082	109	136	162	189	216	243	269	296	321	346	371	396	7
8	026	053	080	107	133	159	185	211	236	262	288	313	338	361	385	8
— 4.9	026	051	077	103	129	154	180	206	230	256	281	305	329	352	375	— 4.9
— 5.0	0025	0050	0076	0101	0125	0150	0175	0200	0224	0249	0273	0296	0319	0342	0365	— 5.0

TABLE X.—*continued.*

From $Y = -8.5$ to $Y = 0.0$ $\xi = X - \frac{1}{9}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
— 5.0	•0025	•0050	•0076	•0101	•0125	•0150	•0175	•0200	•0224	•0249	•0273	•0296	•0319	•0342	•0365	— 5.0
1	024	049	074	098	122	146	170	195	218	242	266	288	311	332	355	1
2	024	047	072	096	118	142	166	189	212	235	258	280	302	323	344	2
3	023	046	070	093	115	138	161	184	206	229	251	272	293	313	334	3
4	023	045	068	090	111	134	156	178	200	222	243	264	284	304	324	4
5	022	044	066	088	108	130	152	173	194	215	236	256	276	294	314	5
6	021	042	063	085	105	126	147	168	187	208	228	247	267	284	303	6
7	021	041	061	082	101	122	142	162	181	201	221	239	258	275	293	7
8	020	040	059	079	098	118	137	157	175	195	213	231	249	265	283	8
— 5.9	020	038	057	076	094	114	133	151	169	188	206	223	240	256	272	— 5.9
— 6.0	•0019	•0037	•0055	•0073	•0091	•0110	•0128	•0146	•0163	•0181	•0198	•0215	•0231	•0246	•0262	— 6.0
1	018	036	053	071	088	106	123	140	157	174	191	207	222	237	252	1
2	018	034	051	068	084	102	119	135	151	167	183	199	213	227	242	2
3	017	033	049	065	081	098	114	130	145	161	176	190	204	218	231	3
4	016	031	047	062	077	093	109	124	138	153	168	182	196	208	221	4
5	016	030	045	060	074	090	104	119	133	147	161	174	187	199	211	5
6	015	029	043	057	071	085	099	113	126	140	153	166	178	189	201	6
7	014	027	041	054	067	081	095	108	120	133	146	158	169	180	191	7
8	013	026	039	052	064	077	090	102	114	127	138	149	161	170	180	8
— 6.9	013	024	037	049	060	072	085	096	108	120	131	141	152	161	170	— 6.9
— 7.0	•0012	•0023	•0035	•0046	•0057	•0069	•0080	•0091	•0102	•0113	•0123	•0133	•0142	•0151	•0160	— 7.0
1	011	022	033	044	054	065	075	086	096	106	116	125	134	142	150	1
2	011	020	031	041	050	060	070	080	089	099	108	117	125	132	140	2
3	010	019	029	038	047	057	066	075	083	092	101	109	116	122	129	3
4	009	018	027	035	043	052	061	069	077	085	093	100	107	113	119	4
5	009	017	025	033	040	049	056	064	071	079	086	092	099	104	109	5
6	008	015	022	030	036	044	051	059	064	071	078	084	090	094	099	6
7	007	014	020	027	033	040	046	053	058	065	071	076	081	085	089	7
8	006	013	018	024	029	035	041	047	052	058	063	068	071	075	078	8
— 7.9	006	011	016	021	026	032	037	042	046	051	056	060	063	066	068	— 7.9
— 8.0	•0005	•0010	•0014	•0018	•0022	•0027	•0032	•0036	•0040	•0044	•0048	•0051	•0054	•0056	•0058	— 8.0
1	004	009	012	016	019	024	027	031	034	037	041	043	045	046	048	1
2	004	007	010	013	016	020	023	026	028	030	033	035	036	037	038	2
3	003	006	008	010	013	016	018	020	022	024	026	026	027	027	027	3
4	002	004	006	007	009	011	013	015	016	017	018	018	018	018	017	4
— 8.5	•0002	•0003	•0004	•0005	•0006	•0008	•0009	•0010	•0010	•0010	•0011	•0010	•0010	•0008	•0007	— 8.5

TABLE XI.—For $D = +28^\circ$.

From $Y = +0.0$ to $Y = +8.0$. $\xi = X - \frac{1}{9}X - \frac{1}{180}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+ 8.0	0059	0117	0175	0233	0291	0350	0408	0466	0523	0581	0638	0695	0752	0808	0864	+ 8.0
+ 7.9	058	116	173	230	288	346	403	461	517	574	631	687	743	798	854	+ 7.9
8	058	114	171	228	284	342	398	455	511	567	623	679	734	789	843	8
7	057	113	169	225	281	338	394	450	504	560	616	671	725	779	833	7
6	056	112	167	222	277	334	389	444	498	553	608	662	716	770	823	6
5	056	111	165	220	274	330	384	439	492	547	601	654	707	760	813	5
4	055	109	163	217	271	325	379	433	486	540	593	646	699	751	802	4
3	054	108	161	214	267	321	374	428	480	533	586	638	690	741	792	3
2	053	106	159	212	264	317	370	422	474	526	578	629	680	731	782	2
1	053	105	157	209	261	313	365	417	468	519	570	621	671	721	771	1
+ 7.0	0052	0104	0155	0206	0257	0309	0360	0411	0461	0512	0563	0613	0662	0712	0761	+ 7.0
+ 6.9	051	102	153	203	254	305	355	406	455	505	555	604	653	702	751	+ 6.9
8	051	101	151	201	251	301	350	400	449	498	547	596	645	693	741	8
7	050	100	149	198	248	297	346	395	443	492	540	588	636	683	730	7
6	049	098	147	196	245	293	341	389	437	485	533	580	627	673	720	6
5	049	097	145	193	241	289	336	384	431	478	525	572	619	665	710	5
4	048	096	143	190	237	284	331	379	424	471	518	564	610	655	700	4
3	047	094	140	187	233	280	326	373	418	464	511	556	601	646	690	3
2	046	093	138	184	230	276	322	368	412	458	503	548	592	636	679	2
1	046	091	136	182	227	272	317	362	406	451	496	540	583	627	669	1
+ 6.0	0045	0090	0134	0179	0223	0268	0312	0357	0400	0444	0488	0531	0574	0617	0659	+ 6.0
+ 5.9	044	089	132	177	220	264	307	351	394	437	480	523	565	607	649	+ 5.9
8	044	087	130	173	216	260	303	346	388	430	473	515	556	597	638	8
7	043	086	128	171	213	256	298	340	382	424	466	507	547	588	628	7
6	043	085	126	168	209	251	293	335	376	417	458	498	538	578	618	6
5	042	083	124	166	207	248	289	330	370	410	451	491	530	569	608	5
4	041	082	122	163	203	243	284	324	363	403	443	482	521	559	597	4
3	041	081	120	160	199	239	279	319	357	396	435	474	512	549	587	3
2	040	080	119	158	196	235	274	313	351	390	428	466	503	540	577	2
1	040	078	116	154	192	231	270	308	345	383	421	458	494	531	566	1
+ 5.0	0039	0077	0114	0151	0188	0226	0264	0302	0339	0376	0413	0449	0485	0521	0556	+ 5.0
+ 4.9	038	076	112	149	186	223	260	297	333	369	405	441	477	511	546	+ 4.9
8	038	074	110	146	182	219	255	291	327	362	398	433	468	502	536	8
7	037	073	108	144	179	215	251	286	320	355	391	425	459	492	525	7
6	036	071	106	141	176	211	246	280	314	348	383	417	450	483	515	6
5	036	070	104	138	172	207	241	275	308	342	376	409	441	473	505	5
4	035	069	102	135	168	202	236	270	302	335	368	400	432	463	495	4
3	034	067	100	132	165	198	231	264	296	328	361	392	423	454	485	3
2	033	066	098	130	162	194	227	259	289	321	353	384	414	444	474	2
1	033	064	095	127	158	190	222	253	283	314	346	376	405	434	464	1
+ 4.0	0032	0063	0093	0124	0155	0186	0217	0248	0277	0307	0338	0367	0396	0425	0454	+ 4.0

TABLE XI.—*continued.*

From $Y = 0.0$ to $+ 8.0$. $\xi = X - \frac{1}{9}X - \frac{1}{180}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+ 4.0	.0032	.0063	.0093	.0124	.0155	.0186	.0217	.0248	.0277	.0307	.0338	.0367	.0396	.0425	.0454	+ 4.0
+ 3.9	031	062	091	121	151	182	212	242	271	300	330	359	387	416	444	+ 3.9
8	031	060	089	118	148	178	207	236	265	293	322	351	379	406	433	8
7	030	059	087	116	145	174	203	231	259	287	316	343	370	397	423	7
6	029	057	085	113	141	170	198	226	253	280	308	335	361	387	413	6
5	029	056	083	111	138	166	193	221	247	273	300	327	353	378	403	5
4	028	055	081	108	134	161	188	215	240	266	293	319	344	368	392	4
3	027	053	079	105	131	157	183	210	234	259	285	310	335	359	382	3
2	026	052	077	102	127	153	179	204	228	253	278	302	326	349	372	2
1	026	050	075	100	124	149	174	199	222	246	270	293	317	340	362	1
+ 3.0	.0025	.0049	.0073	.0097	.0121	.0145	.0169	.0193	.0216	.0239	.0262	.0285	.0308	.0330	.0351	+ 3.0
+ 2.9	024	048	071	094	117	141	164	188	210	232	255	277	299	320	341	+ 2.9
8	024	046	069	092	114	137	159	182	204	225	247	269	290	311	331	8
7	023	045	067	089	111	133	155	177	198	219	240	260	281	301	320	7
6	022	044	065	086	107	129	150	171	191	212	233	252	272	291	310	6
5	022	043	063	084	104	125	145	166	185	205	225	244	263	282	300	5
4	021	041	061	081	100	120	140	160	179	198	217	236	254	272	290	4
3	020	040	059	078	097	116	135	155	173	191	210	228	245	262	279	3
2	019	039	057	075	093	112	131	149	167	185	203	219	236	252	269	2
1	019	037	055	073	090	108	126	144	161	178	195	211	227	243	259	1
+ 2.0	.0018	.0036	.0053	.0070	.0087	.0104	.0121	.0138	.0155	.0171	.0187	.0203	.0218	.0233	.0249	+ 2.0
+ 1.9	017	035	051	067	083	100	116	133	149	164	180	195	210	224	238	+ 1.9
8	017	033	048	064	080	096	111	127	142	157	172	187	201	215	228	8
7	016	032	047	062	076	092	107	122	136	151	165	179	193	206	218	7
6	015	030	044	059	073	088	102	116	130	144	158	171	184	196	208	6
5	015	029	042	056	070	084	097	111	124	137	150	162	174	186	198	5
4	014	027	040	053	066	079	092	105	117	130	142	154	166	177	188	4
3	013	026	038	050	062	075	087	099	111	123	135	146	157	167	178	3
2	012	024	036	048	059	071	083	094	105	116	127	137	148	157	167	2
1	012	023	034	045	055	067	078	089	099	110	120	129	139	148	157	1
+ 1.0	.0011	.0021	.0032	.0042	.0052	.0063	.0073	.0084	.0093	.0103	.0112	.0121	.0130	.0138	.0147	+ 1.0
+ 0.9	010	020	030	039	049	059	068	079	087	096	104	113	121	128	136	+ 0.9
8	010	019	028	037	045	054	063	072	081	089	097	105	112	119	126	8
7	009	017	026	034	042	051	059	067	074	082	089	096	103	109	115	7
6	008	016	024	031	038	046	054	061	068	075	082	088	094	100	105	6
5	008	015	022	029	036	043	049	056	062	069	075	080	085	090	095	5
4	007	013	019	026	032	038	044	050	056	062	067	072	076	080	084	4
3	006	012	017	023	028	034	040	045	050	055	060	064	068	071	074	3
2	005	011	015	020	025	030	035	039	043	048	052	056	059	061	064	2
1	005	009	013	018	022	026	030	034	037	041	045	048	050	052	054	1
0.0	.0004	.0008	.0011	.0015	.0018	.0022	.0025	.0028	.0031	.0034	.0037	.0039	.0041	.0042	.0043	0.0

TABLE XII.—For $D = +28^\circ$.

From $Y = +8.0$ to $Y = +12.0$. $\xi = X - \frac{1}{9}X - \frac{1}{90}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+12.0	.0030	.0061	.0091	.0121	.0150	.0180	.0210	.0239	.0269	.0298	.0327	.0356	.0385	.0412	.0440	+12.0
+11.9	.029	.060	.090	.119	.147	.176	.205	.234	.263	.292	.320	.348	.376	.403	.430	+11.9
8	.029	.058	.086	.115	.143	.172	.200	.228	.257	.285	.312	.340	.367	.393	.419	8
7	.028	.057	.085	.113	.141	.168	.196	.223	.250	.278	.305	.331	.358	.384	.409	7
6	.027	.056	.084	.111	.138	.164	.191	.217	.244	.271	.297	.323	.349	.374	.399	6
5	.027	.055	.082	.108	.134	.160	.186	.212	.238	.264	.290	.315	.340	.365	.389	5
4	.026	.053	.079	.105	.130	.155	.181	.207	.232	.257	.282	.307	.331	.355	.378	4
3	.025	.051	.077	.102	.127	.152	.176	.201	.226	.251	.275	.299	.323	.346	.368	3
2	.024	.050	.075	.100	.124	.148	.172	.196	.219	.243	.267	.290	.313	.336	.358	2
1	.024	.049	.073	.097	.120	.143	.167	.190	.213	.237	.260	.282	.305	.327	.347	1
+11.0	.0023	.0047	.0071	.0094	.0116	.0139	.0162	.0185	.0207	.0230	.0252	.0274	.0296	.0317	.0337	+11.0
+10.9	.022	.046	.069	.091	.113	.135	.157	.179	.201	.223	.245	.266	.287	.307	.327	+10.9
8	.022	.045	.067	.089	.110	.131	.153	.174	.195	.216	.237	.258	.278	.298	.317	8
7	.021	.043	.065	.086	.106	.127	.148	.169	.189	.210	.230	.249	.269	.288	.306	7
6	.021	.042	.063	.083	.103	.123	.143	.163	.183	.203	.222	.241	.260	.279	.297	6
5	.020	.041	.061	.080	.100	.119	.138	.158	.177	.196	.215	.233	.251	.269	.286	5
4	.019	.039	.058	.077	.096	.114	.133	.152	.170	.189	.207	.225	.242	.259	.276	4
3	.019	.038	.056	.074	.092	.110	.129	.147	.164	.182	.200	.217	.234	.250	.266	3
2	.018	.036	.054	.072	.089	.106	.124	.141	.158	.175	.192	.208	.224	.240	.255	2
1	.018	.035	.052	.069	.085	.102	.119	.136	.152	.169	.185	.200	.216	.231	.245	1
+10.0	.0017	.0034	.0050	.0066	.0082	.0098	.0114	.0130	.0146	.0162	.0177	.0192	.0207	.0221	.0235	+10.0
+9.9	.016	.032	.048	.063	.078	.094	.110	.125	.140	.155	.170	.184	.198	.211	.225	+9.9
8	.016	.031	.046	.061	.075	.090	.105	.119	.134	.148	.162	.176	.189	.202	.214	8
7	.015	.030	.044	.058	.072	.086	.100	.114	.127	.141	.155	.167	.180	.192	.204	7
6	.014	.028	.042	.055	.068	.081	.095	.108	.121	.134	.147	.159	.171	.182	.194	6
5	.014	.027	.040	.053	.066	.078	.091	.103	.115	.128	.140	.152	.163	.173	.184	5
4	.013	.026	.038	.050	.062	.074	.086	.098	.109	.121	.132	.143	.153	.163	.173	4
3	.012	.024	.036	.048	.059	.070	.081	.092	.103	.114	.125	.135	.145	.154	.163	3
2	.011	.023	.034	.045	.055	.066	.076	.087	.097	.107	.117	.126	.135	.144	.153	2
1	.011	.021	.032	.042	.051	.061	.071	.081	.091	.101	.110	.118	.126	.134	.142	1
+9.0	.0010	.0020	.0030	.0039	.0048	.0057	.0067	.0076	.0085	.0094	.0102	.0110	.0117	.0125	.0132	+9.0
+8.9	.009	.019	.028	.036	.044	.053	.062	.071	.079	.087	.095	.102	.109	.115	.122	+8.9
8	.009	.017	.025	.033	.041	.049	.057	.065	.072	.080	.087	.094	.100	.106	.112	8
7	.008	.016	.024	.030	.037	.045	.053	.060	.067	.074	.080	.086	.091	.096	.101	7
6	.007	.014	.022	.028	.034	.041	.048	.054	.060	.066	.072	.077	.082	.087	.091	6
5	.007	.013	.020	.026	.031	.037	.043	.049	.054	.060	.065	.069	.073	.077	.081	5
4	.006	.012	.017	.022	.027	.032	.038	.043	.048	.053	.057	.061	.064	.067	.071	4
3	.005	.010	.015	.020	.024	.028	.033	.038	.042	.046	.050	.053	.056	.058	.061	3
2	.004	.009	.013	.018	.021	.024	.028	.032	.036	.040	.043	.045	.047	.049	.050	2
1	.004	.007	.011	.014	.017	.020	.024	.027	.030	.033	.035	.037	.038	.039	.040	1
+8.0	.0003	.0006	.0009	.0012	.0014	.0016	.0019	.0021	.0023	.0026	.0027	.0028	.0029	.0029	.0030	+8.0

TABLE XIII.—For $D = +28^\circ$.From $Y = +12.0$ to $Y = +13.0$. $\xi = X - \frac{1}{8}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+13.0	·0009	·0019	·0028	·0037	·0046	·0055	·0064	·0072	·0080	·0089	·0096	·0104	·0112	·0119	·0126	+13.0
+12.9	008	017	026	034	043	051	059	067	074	082	089	096	103	109	115	+12.9
8	008	016	024	032	039	047	054	061	068	075	081	088	094	100	105	8
7	007	015	022	029	036	043	050	056	062	068	074	079	085	090	095	7
6	006	013	020	026	032	039	045	050	056	061	066	071	076	081	085	6
5	006	012	018	024	029	035	040	045	050	055	059	063	067	071	075	5
4	005	010	015	021	026	030	035	039	043	048	051	055	059	061	065	4
3	004	009	013	018	022	026	030	034	037	041	044	047	050	052	055	3
2	003	007	011	015	019	022	025	028	031	034	036	038	040	042	044	2
1	003	006	009	012	015	018	021	023	025	027	029	031	031	033	034	1
+12.0	·0002	·0005	·0007	·0010	·0012	·0014	·0016	·0017	·0019	·0020	·0021	·0022	·0023	·0023	·0024	+12.0

TABLE XIV.—For $D = + 28^\circ$.

From $\eta = -13.0$ to $\eta = -8.0$. $X = \xi + \frac{1}{9}\xi + \frac{1}{100}\xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
— 8.0	0045	0090	0135	0179	0223	0267	0311	0354	0397	0439	0481	0522	0563	— 8.0
1	044	088	132	176	219	262	305	347	389	431	472	512	552	1
2	043	087	130	172	214	257	299	340	382	423	462	501	540	2
3	042	085	127	169	210	251	292	333	374	414	453	491	529	3
4	041	083	125	166	206	246	287	326	366	405	443	481	518	4
5	040	081	122	162	202	241	281	320	359	397	434	471	507	5
6	040	079	119	158	197	236	275	313	351	388	424	460	495	6
7	039	078	117	155	193	231	269	306	343	379	415	450	484	7
8	038	076	114	152	189	225	262	299	335	370	405	439	473	8
— 8.9	037	075	112	148	184	220	256	292	328	362	396	429	461	— 8.9
— 9.0	0036	0073	0109	0145	0180	0215	0250	0285	0320	0353	0386	0418	0450	— 9.0
1	035	071	106	141	176	210	244	278	312	345	377	408	439	1
2	034	069	104	138	171	205	238	271	304	336	367	398	428	2
3	034	068	101	134	167	200	232	264	296	327	358	388	416	3
4	033	066	099	131	163	195	227	258	289	319	348	377	405	4
5	032	064	096	128	159	190	221	251	281	310	339	367	394	5
6	031	062	093	124	154	184	214	244	273	301	329	356	383	6
7	030	061	091	121	150	179	208	237	265	293	320	346	372	7
8	030	059	088	117	146	174	203	230	257	284	310	336	360	8
— 9.9	029	058	086	113	141	169	196	223	250	276	301	325	349	— 9.9
— 10.0	0028	0056	0083	0110	0137	0164	0190	0216	0242	0267	0291	0315	0338	— 10.0
1	027	054	080	107	133	159	184	209	234	258	282	305	327	1
2	026	052	078	103	128	154	178	202	226	250	272	294	316	2
3	025	051	075	100	124	148	172	195	218	241	263	284	304	3
4	024	049	073	097	120	143	166	188	210	233	253	273	293	4
5	023	047	070	093	116	138	160	182	203	224	244	263	282	5
6	023	045	067	089	111	133	154	175	195	215	235	253	271	6
7	022	043	065	086	107	128	148	168	187	206	225	243	260	7
8	021	042	062	083	103	122	142	161	180	198	216	232	248	8
— 10.9	020	040	060	079	098	117	136	154	172	189	206	222	237	— 10.9
— 11.0	0019	0038	0057	0076	0094	0112	0130	0147	0164	0180	0196	0211	0226	— 11.0
1	018	036	054	072	090	107	124	140	156	171	186	201	215	1
2	017	035	052	069	085	102	118	133	149	164	177	191	204	2
3	017	033	049	065	081	096	112	126	141	155	168	180	192	3
4	016	031	047	062	077	091	105	119	133	146	158	170	181	4
5	015	030	044	059	073	086	099	113	126	138	149	160	170	5
6	014	028	041	055	068	081	093	106	118	129	140	150	159	6
7	013	026	039	052	064	076	087	099	110	120	130	139	148	7
8	013	024	036	048	060	071	081	092	102	111	120	128	136	8
— 11.9	012	023	034	045	055	065	075	085	094	103	111	118	125	— 11.9
— 12.0	0011	0021	0031	0042	0051	0060	0069	0078	0086	0094	0101	0108	0114	— 12.0
1	010	019	029	039	048	055	063	071	079	086	092	098	103	1
2	009	018	026	034	042	050	057	064	071	077	082	087	092	2
3	008	016	024	031	038	045	051	058	064	069	074	077	080	3
4	007	014	021	028	034	040	045	051	056	060	064	067	069	4
5	006	013	019	025	030	035	039	044	048	052	055	057	058	5
6	006	011	016	021	025	029	033	037	040	043	045	046	047	6
7	005	009	014	018	021	024	027	030	033	035	036	036	036	7
8	004	007	011	014	017	019	021	023	025	026	026	025	024	8
— 12.9	003	006	009	011	012	014	015	017	018	018	017	015	013	— 12.9
— 13.0	0002	0004	0006	0007	0008	0009	0009	0010	0010	0009	0007	0005	0002	— 13.0

TABLE XV.—For $D = +28^\circ$.From $\eta = -8.0$ to $\eta = -3.5$. $X = \xi + \frac{1}{8}\xi + \text{following table.}$

η .	$\xi=1.$	$\xi=2.$	$\xi=3.$	$\xi=4.$	$\xi=5.$	$\xi=6.$	$\xi=7.$	$\xi=8.$	$\xi=9.$	$\xi=10.$	$\xi=11.$	$\xi=12.$	$\xi=13.$	η .
— 3.5	•0046	•0090	•0135	•0180	•0225	•0270	•0314	•0357	•0400	•0442	•0483	•0524	•0565	— 3.5
6	045	088	132	177	221	264	306	349	392	434	473	513	553	6
7	044	087	130	174	216	258	300	342	384	425	464	503	542	7
8	043	085	127	170	212	253	294	335	376	416	455	493	531	8
— 3.9	042	084	125	166	207	248	288	328	368	407	445	482	519	— 3.9
— 4.0	•0041	•0081	•0122	•0163	•0203	•0243	•0282	•0321	•0360	•0398	•0435	•0472	•0508	— 4.0
1	040	079	119	160	199	238	276	314	352	389	425	461	497	1
2	039	078	117	156	194	232	270	307	344	380	416	451	485	2
3	038	076	114	152	190	227	264	300	336	371	405	440	474	3
4	037	074	112	149	185	222	258	293	328	362	396	430	463	4
5	036	073	109	145	181	217	252	286	320	354	387	420	452	5
6	036	071	106	142	177	211	245	279	313	346	378	409	440	6
7	035	069	104	138	172	206	239	272	305	337	368	399	429	7
8	034	067	101	135	168	201	233	265	297	328	358	389	418	8
— 4.9	033	066	099	131	163	195	227	258	289	320	349	378	406	— 4.9
— 5.0	•0032	•0064	•0096	•0128	•0159	•0190	•0221	•0251	•0281	•0311	•0340	•0368	•0395	— 5.0
1	031	062	093	124	155	185	215	244	273	302	330	357	384	1
2	030	061	091	121	150	180	209	237	265	293	320	346	372	2
3	029	059	088	117	146	174	202	230	258	285	311	336	361	3
4	028	057	086	114	142	169	196	223	250	276	301	325	350	4
5	027	055	083	111	138	164	191	217	242	267	291	315	339	5
6	027	054	080	107	133	159	184	209	234	258	281	304	327	6
7	026	052	078	104	129	154	178	202	226	250	272	294	316	7
8	025	050	075	100	125	149	172	196	219	241	263	284	305	8
— 5.9	024	049	073	097	120	143	166	189	211	233	254	274	293	— 5.9
— 6.0	•0023	•0047	•0070	•0093	•0116	•0138	•0160	•0182	•0203	•0224	•0244	•0263	•0282	— 6.0
1	022	045	067	090	112	133	154	175	195	215	234	253	271	1
2	021	043	065	086	107	128	148	168	187	206	225	242	259	2
3	021	042	063	083	103	122	142	161	180	198	215	232	248	3
4	020	040	060	079	098	117	136	154	172	189	205	221	237	4
5	019	038	057	076	094	112	130	148	164	180	196	211	226	5
6	018	036	054	072	090	107	124	141	156	171	186	200	214	6
7	017	034	052	069	085	102	118	134	149	163	177	190	203	7
8	017	033	049	065	081	096	112	127	141	154	168	180	192	8
— 6.9	016	031	047	062	076	091	106	120	133	145	158	169	180	— 6.9
— 7.0	•0015	•0029	•0044	•0058	•0072	•0086	•0100	•0113	•0125	•0137	•0148	•0159	•0169	— 7.0
1	014	027	041	055	068	081	094	106	117	128	139	149	158	1
2	013	026	039	051	063	076	088	099	109	120	129	138	147	2
3	012	024	036	048	059	070	081	092	102	111	120	128	135	3
4	011	022	034	045	055	065	076	085	094	102	110	117	124	4
5	010	021	031	041	051	060	069	078	086	094	101	107	113	5
6	010	019	028	037	046	055	063	071	078	085	091	097	102	6
7	009	017	026	034	042	050	057	064	070	076	082	087	091	7
8	008	015	023	031	038	044	051	057	063	068	072	076	079	8
— 7.9	007	014	021	027	033	039	045	050	055	059	062	065	068	— 7.9
— 8.0	•0006	•0012	•0018	•0024	•0029	•0034	•0039	•0043	•0047	•0050	•0053	•0055	•0057	— 8.0

TABLE XVI.—For $D = +28^\circ$.

From $\eta = -3.5$ to $\eta = +3.0$. $X = \xi + \frac{1}{8}\xi + \frac{1}{200}\xi +$ following table.

η .	$\xi=1.$	$\xi=2.$	$\xi=3.$	$\xi=4.$	$\xi=5.$	$\xi=6.$	$\xi=7.$	$\xi=8.$	$\xi=9.$	$\xi=10.$	$\xi=11.$	$\xi=12.$	$\xi=13.$	η .
+ 3.0	.0052	.0104	.0156	.0208	.0259	.0310	.0361	.0411	.0461	.0510	.0559	.0607	.0654	+ 3.0
+ 2.9	051	102	153	204	255	305	355	404	453	501	549	596	643	+ 2.9
8	050	100	151	201	250	299	348	397	445	492	539	585	631	8
7	049	099	148	197	246	294	342	390	437	484	530	575	620	7
6	048	097	145	193	241	289	336	383	429	475	520	564	608	6
5	047	095	143	190	237	284	330	376	422	467	511	554	597	5
4	047	093	140	186	232	278	324	369	414	458	501	544	586	4
3	046	091	137	183	228	273	318	362	406	449	492	534	574	3
2	045	090	134	179	224	268	311	355	398	440	482	523	563	2
1	044	088	132	176	219	262	305	348	390	431	472	512	551	1
+ 2.0	.0043	.0086	.0129	.0172	.0215	.0257	.0299	.0341	.0382	.0422	.0462	.0501	.0540	+ 2.0
+ 1.9	042	084	126	169	211	252	293	334	374	413	452	491	529	+ 1.9
8	041	083	124	165	206	247	287	327	366	404	442	480	517	8
7	040	081	121	162	202	241	281	320	358	396	433	470	506	7
6	039	079	119	158	197	236	275	313	350	387	423	459	494	6
5	038	077	116	155	193	231	269	306	343	379	414	449	483	5
4	038	076	113	151	189	226	262	299	335	370	404	438	471	4
3	037	074	111	148	184	220	256	292	327	361	394	427	460	3
2	036	072	108	144	180	215	250	285	319	352	385	417	448	2
1	035	071	106	141	175	210	244	278	311	343	375	406	436	1
+ 1.0	.0034	.0069	.0103	.0137	.0171	.0205	.0238	.0271	.0303	.0334	.0365	.0395	.0425	+ 1.0
+ 0.9	033	067	100	134	167	200	232	264	295	325	356	385	414	+ 0.9
8	032	065	098	130	162	194	226	257	287	317	346	374	402	8
7	032	064	095	127	158	189	219	250	279	308	336	364	391	7
6	031	062	093	123	153	184	213	242	271	299	327	354	380	6
5	030	060	090	120	149	178	207	235	264	291	318	344	369	5
4	029	058	087	116	145	173	201	228	255	282	308	333	357	4
3	028	056	085	113	141	168	195	221	247	273	298	322	346	3
2	028	055	082	109	136	163	188	214	239	264	288	312	335	2
+ 0.1	027	053	080	106	131	157	182	207	232	256	279	301	323	+ 0.1
0.0	.0026	.0051	.0077	.0102	.0127	.0152	.0176	.0200	.0224	.0247	.0269	.0291	.0312	0.0
- 0.1	025	049	074	099	123	147	170	193	216	238	259	280	301	- 0.1
2	024	048	072	095	118	142	165	186	208	229	250	270	289	2
3	023	046	069	092	114	136	158	179	200	221	240	259	278	3
4	022	044	066	088	110	131	152	172	192	212	231	249	266	4
5	021	043	064	085	106	126	146	166	185	203	221	238	255	5
6	021	041	061	081	101	121	140	159	177	194	211	228	244	6
7	020	039	059	078	097	116	134	152	169	185	202	218	233	7
8	019	037	056	074	092	110	127	144	161	177	192	207	221	8
- 0.9	018	036	054	071	088	105	121	137	153	168	182	196	209	- 0.9
- 1.0	.0017	.0034	.0051	.0067	.0084	.0100	.0115	.0130	.0145	.0159	.0173	.0186	.0198	- 1.0
1	016	032	048	064	080	095	109	123	137	150	163	175	187	1
2	015	030	046	060	075	089	103	117	129	142	154	165	175	2
3	014	029	043	057	071	084	097	110	122	133	144	154	164	3
4	013	027	040	053	066	079	091	103	114	124	135	144	152	4
5	012	025	038	050	062	074	085	096	106	116	125	133	141	5
6	012	023	035	046	057	068	078	089	098	107	115	123	130	6
7	011	021	032	043	053	063	072	081	090	098	105	112	118	7
8	010	020	029	039	049	058	066	074	082	089	096	102	107	8
- 1.9	009	018	027	036	044	052	060	068	075	081	086	091	095	- 1.9

TABLE XVI.—*continued.*

From $\eta = -3.5$ to $\eta = +3.0$. $X = \xi + \frac{1}{8}\xi + \frac{1}{200}\xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
— 2.0	.0008	.0016	.0024	.0032	.0040	.0047	.0054	.0061	.0067	.0072	.0077	.0081	.0084	— 2.0
1	007	014	021	029	036	042	048	054	059	063	067	070	073	1
2	006	013	019	025	031	037	042	047	051	055	058	060	061	2
3	006	011	016	022	027	031	036	040	043	046	048	049	050	3
4	005	009	014	018	022	026	030	033	035	037	039	038	039	4
5	004	008	011	015	018	021	024	026	028	029	029	028	028	5
6	003	006	008	011	014	016	017	019	020	020	019	018	016	6
7	002	004	006	008	009	010	011	012	012	011	010	008	005	7
8	002	002	003	004	005	005	005	005	004	002	000	003	006	8
— 2.9	001	001	001	001	000	000	001	002	004	006	009	013	018	— 2.9
— 3.0	.0000	.0001	.0002	.0003	.0004	.0005	.0007	.0009	.0012	.0015	.0019	.0024	.0029	— 3.0
1	0001	003	005	007	008	011	013	016	020	024	029	035	040	1
2	002	004	007	010	013	016	019	023	028	033	038	045	052	2
3	002	006	010	014	017	021	025	030	036	042	048	055	063	3
4	003	008	012	017	022	026	032	037	044	050	057	065	074	4
— 3.5	.0004	.0009	.0015	.0021	.0026	.0031	.0038	.0044	.0052	.0059	.0067	.0076	.0086	— 3.5

TABLE XVII.—For $D = +28^\circ$.

From $\eta = +3.0$ to $\eta = +6.0$. $X = \xi + \frac{1}{8}\xi + \frac{1}{100}\xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
+ 6.0	.0029	.0057	.0085	.0113	.0141	.0169	.0196	.0223	.0249	.0275	.0300	.0324	.0348	+ 6.0
+ 5.9	028	055	082	110	137	164	190	216	241	266	290	313	337	+ 5.9
8	027	053	080	106	132	158	184	209	233	257	280	303	325	8
7	026	052	077	103	128	153	177	201	225	249	271	293	314	7
6	025	050	075	099	123	147	171	194	218	240	261	282	302	6
5	024	048	072	096	119	142	165	188	210	231	252	272	291	5
4	024	046	069	092	115	137	159	181	202	222	242	260	279	4
3	023	045	067	089	110	132	153	173	194	213	232	250	268	3
2	022	043	064	085	106	127	146	166	186	205	222	239	256	2
1	021	041	062	082	101	121	140	159	178	196	213	229	245	1
+ 5.0	.0020	.0039	.0059	.0078	.0097	.0116	.0134	.0152	.0170	.0187	.0203	.0218	.0233	+ 5.0
+ 4.9	019	037	056	075	093	111	128	145	162	178	193	208	222	+ 4.9
8	018	036	054	071	088	105	122	138	154	169	184	198	210	8
7	017	034	051	068	084	100	116	131	146	160	174	187	199	7
6	016	032	048	064	079	095	110	124	138	151	164	176	187	6
5	015	031	046	061	075	090	104	117	130	143	155	165	176	5
4	015	029	043	057	071	084	097	110	122	134	145	155	165	4
3	014	027	040	054	066	079	091	103	114	125	135	144	153	3
2	013	025	037	050	062	074	085	096	106	116	125	133	142	2
1	012	024	035	046	057	068	079	089	098	107	116	123	130	1
+ 4.0	.0011	.0022	.0032	.0043	.0053	.0063	.0073	.0082	.0090	.0098	.0106	.0113	.0119	+ 4.0
+ 3.9	010	020	029	040	049	058	067	075	082	089	096	102	108	+ 3.9
8	009	018	027	036	044	052	061	068	074	081	087	092	096	8
7	008	017	025	033	040	047	054	060	066	072	077	081	085	7
6	007	015	022	029	035	042	048	054	059	063	067	070	073	6
5	006	013	019	026	032	037	042	047	051	055	058	060	062	5
4	006	011	016	022	028	031	036	039	043	046	048	049	050	4
3	005	009	014	019	023	026	029	032	035	037	038	039	039	3
2	004	008	011	015	018	021	023	025	027	028	028	028	027	2
1	003	006	009	011	013	015	017	018	019	019	019	018	016	1
+ 3.0	.0002	.0004	.0006	.0008	.0009	.0010	.0011	.0011	.0011	.0010	.0009	.0007	.0004	+ 3.0

TABLE XVIII.—For $D = +28^\circ$.From $\eta = +6^\circ 0$ to $\eta = +12^\circ 0$. $X = \xi + \frac{1}{8}\xi + \frac{1}{80}\xi + \text{following table.}$

η .	$\xi=1.$	$\xi=2.$	$\xi=3.$	$\xi=4.$	$\xi=5.$	$\xi=6.$	$\xi=7.$	$\xi=8.$	$\xi=9.$	$\xi=10.$	$\xi=11.$	$\xi=12.$	$\xi=13.$	η .
+12°0	0057	0114	0170	0227	0283	0339	0394	0449	0504	0558	0612	0664	0716	+12°0
+11°9	056	112	167	223	279	334	388	442	496	549	602	653	704	+11°9
8	055	110	165	220	274	328	382	435	488	540	592	643	693	8
7	054	109	162	216	270	323	375	428	480	531	582	632	681	7
6	053	107	159	213	265	317	369	421	472	522	572	621	670	6
5	052	105	157	209	261	312	363	414	464	514	563	611	658	5
4	052	103	154	205	256	307	357	406	456	505	553	600	646	4
3	051	101	151	202	252	301	351	399	448	496	543	589	635	3
2	050	100	148	198	247	296	344	392	440	487	533	578	623	2
1	049	098	146	195	243	290	338	385	432	478	523	568	612	1
+11°0	0048	0096	0143	0191	0238	0285	0332	0378	0424	0469	0513	0557	0600	+11°0
+10°9	047	094	140	187	234	280	326	371	416	460	503	546	588	+10°9
8	046	092	138	184	229	274	319	364	408	451	493	536	577	8
7	045	091	135	180	225	269	313	357	400	442	484	525	565	7
6	044	089	133	177	220	264	307	350	392	433	474	514	554	6
5	043	087	130	173	216	259	301	343	384	424	464	504	542	5
4	043	085	127	169	212	253	294	335	375	415	454	493	530	4
3	042	083	125	166	207	248	288	328	367	406	444	482	519	3
2	041	082	122	162	203	243	282	321	359	397	435	471	507	2
1	040	080	120	159	198	237	275	314	351	388	425	461	496	1
+10°0	0039	0078	0117	0155	0194	0232	0269	0307	0343	0379	0415	0450	0484	+10°0
+9°9	038	076	114	152	190	227	263	300	335	370	405	439	473	+9°9
8	037	074	112	148	185	221	257	293	327	361	395	429	461	8
7	037	073	109	145	181	216	250	286	319	353	386	418	450	7
6	036	071	106	141	176	210	244	279	311	344	376	407	438	6
5	035	069	104	138	172	205	238	272	303	335	366	397	427	5
4	034	067	101	134	167	200	232	264	295	326	356	386	415	4
3	033	065	098	131	163	194	226	257	287	317	346	375	404	3
2	033	064	095	127	158	189	219	250	279	309	337	364	392	2
1	032	062	093	124	154	183	213	243	271	300	327	354	381	1
+9°0	0031	0060	0090	0120	0149	0178	0207	0236	0263	0291	0317	0343	0369	+9°0
+8°9	030	058	087	116	145	173	201	229	255	282	307	332	357	+8°9
8	029	056	085	113	140	167	195	222	247	273	298	322	346	8
7	028	055	082	109	136	162	188	215	239	264	288	311	334	7
6	027	053	079	106	131	157	182	208	231	255	278	301	323	6
5	026	051	077	102	127	152	176	201	224	247	269	290	311	5
4	025	049	074	098	123	146	170	193	216	238	259	279	299	4
3	024	047	071	095	118	141	164	186	208	229	249	269	288	3
2	023	046	068	091	114	136	157	179	200	220	239	258	276	2
1	022	044	066	088	109	130	151	172	192	211	230	248	265	1
+8°0	0021	0042	0063	0084	0105	0125	0145	0165	0184	0202	0220	0237	0253	+8°0

TABLE XVIII.—*continued.*

From $\eta = + 6^{\circ}0$ to $\eta = + 12^{\circ}0$. $X = \xi + \frac{1}{8}\xi + \frac{1}{80}\xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
+ 8°0	·0021	·0042	·0063	·0084	·0105	·0125	·0145	·0165	·0184	·0202	·0220	·0237	·0253	+ 8°0
+ 7°9	020	040	060	081	101	120	139	158	176	193	210	226	242	+ 7°9
8	019	039	058	077	096	114	133	151	168	184	201	216	230	8
7	018	037	055	074	092	109	126	144	160	175	191	205	219	7
6	017	035	053	070	087	104	120	137	152	166	181	195	207	6
5	016	034	050	067	083	099	114	130	144	158	172	184	196	5
4	016	032	047	063	079	093	108	122	136	149	162	173	184	4
3	015	030	045	060	074	088	102	115	128	140	152	163	173	3
2	014	028	042	056	070	083	095	108	120	131	142	152	161	2
1	013	027	040	053	065	077	089	101	112	122	133	142	150	1
+ 7°0	·0012	·0025	·0037	·0049	·0061	·0072	·0083	·0094	·0104	·0113	·0123	·0131	·0138	+ 7°0
+ 6°9	011	023	034	045	057	067	077	087	096	104	113	120	127	+ 6°9
8	010	021	032	042	052	061	071	080	088	095	103	110	115	8
7	010	020	029	038	048	056	064	073	080	087	094	099	104	7
6	009	018	026	035	043	051	058	066	072	078	084	088	092	6
5	008	016	024	031	039	046	052	059	064	069	074	078	081	5
4	007	014	021	027	034	040	046	051	056	060	064	067	069	4
3	006	012	018	024	030	035	040	044	048	051	054	056	058	3
2	006	011	015	020	025	030	033	037	040	043	045	045	046	2
1	005	009	013	017	021	024	027	030	032	034	035	035	035	1
+ 6°0	·0004	·0007	·0010	·0013	·0016	·0019	·0021	·0023	·0024	·0025	·0025	·0024	·0023	+ 6°0

TABLE XIX.—For $D = + 28^{\circ}$.

From $\eta = + 12^{\circ}0$ to $\eta = + 13^{\circ}0$. $X = \xi + \frac{1}{7}\xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
+ 13°0	·0012	·0025	·0036	·0048	·0059	·0071	·0082	·0092	·0102	·0111	·0121	·0128	·0136	+ 13°0
+ 12°9	011	023	033	045	055	066	076	085	094	102	111	117	124	+ 12°9
8	010	021	031	041	050	060	069	078	086	093	101	107	113	8
7	009	020	028	038	046	055	063	070	078	084	092	096	101	7
6	008	018	025	034	041	050	057	063	070	075	082	085	090	6
5	007	016	023	031	037	045	051	056	062	067	072	075	078	5
4	007	014	020	027	033	039	044	049	054	058	062	064	066	4
3	006	012	017	024	028	034	038	042	046	049	052	053	055	3
2	005	011	014	020	024	029	032	034	038	040	043	042	043	2
1	004	009	012	017	019	023	025	027	030	031	033	032	032	1
+ 12°0	·0003	·0007	·0009	·0013	·0015	·0018	·0019	·0020	·0022	·0022	·0023	·0021	·0020	+ 12°0

OXFORD ASTROGRAPHIC CATALOGUE, 1900.

ZONE + 28°.

MEASURES OF
RECTANGULAR CO-ORDINATES AND DIAMETERS
OF STAR IMAGES ON PHOTOGRAPHS

TAKEN AT THE UNIVERSITY OBSERVATORY, OXFORD.

NOTES.

HEADINGS.—The *Plate Number* given at the head of each plate shows the order in the series taken with the Astrographic Equatorial. The approximate centre and the date of exposure are also given; other particulars will be found in a table in the Introduction.

The *Provisional Constants* are approximate only. They are derived from a comparison of the measures with the printed meridian places for 1875.0, given in the Catalogues of the *Astronomische Gesellschaft*, brought up to 1900.0; and are thus affected with errors due to proper motion, as well as magnitude-equation, etc. The reference stars are being re-observed at Greenwich, and more accurate formulæ will be derived in the future. Meanwhile the Provisional Constants allow of the deduction of places in R.A. and Dec. from the recorded measures, which should be accurate within 1" or 1".5. The necessary processes are: first form the "standard co-ordinates" ξ and η from the formulæ

$$\begin{aligned}\xi &= x - 13 - Ax - By - C \\ \eta &= y - 13 - Dx - Ey - F\end{aligned}$$

and then by means of the tables in the Introduction deduce the R.A. and Dec. from ξ and η .

The *Formula for Magnitudes* is derived from a discussion of the brighter stars on the plate, and may not be very near the truth for the fainter stars: see *Monthly Notices R.A.S.*, Vol. LXV. p. 755. The diameter d is expressed in units of 0".3, and is thus numerically one-half of the corresponding d for the Greenwich measures.

COLUMNS.—The *Reference Number* given in the first column is a purely arbitrary number for identification only. To avoid the inconvenience of altering all subsequent numbers when an accidentally omitted star is inserted, a new century is commenced for each plate; so that, for instance, the numbers from 224 to 300 are vacant. Since the same star occurs on two plates at least, it has at least two reference numbers; and with each number must be given also the Zone (or declination of plate centre) $+31^\circ$, $+30^\circ$, etc. This method of numeration has been rendered familiar by the *Bonn Durchmusterung*.

When a star occurs in one of the Catalogues of the *Astronomische Gesellschaft*, an asterisk is placed against the reference number; but these asterisks have been inserted from the list of stars for which standard co-ordinates were calculated; including some corrected places received in M.S. from the Cambridge Observatory and not printed in the *A.G.* Catalogue. As the actual plate centre differs a little from the theoretical, some stars are measured which would not theoretically be on the plate, and the asterisk may therefore not have been inserted. Generally speaking, if a star image is within 5' of the border of the plate, its occurrence in a Catalogue may have been overlooked; otherwise it has been specially checked.

The *second* column gives the measured diameter d expressed in units of 0".3. The number set down is the mean of two independent measures (see below).

NOTES—continued.

The *third* and *fourth* columns give the rectangular co-ordinates of the stars, measured with reference to *réseau* lines on each plate, which are numbered from 0 to 26 in direction of increasing R.A. and Dec. respectively, and are approximately 5^{mm} apart, representing $5'$ nearly. For 98 plates used in this volume the *réseau* had lines actually $5^{\text{mm}}\cdot04$ apart, as the focal length of the telescope is such that $1' = 1^{\text{mm}}\cdot008$ nearly, and the values of the Constants A and E are thus reduced from $\cdot008$ to about one-tenth of that value: all plates with numbers under 1159 have the *réseau* lines 5^{mm} apart.

The stars are arranged in the order of the x co-ordinate for each *réseau* interval or zone of $5'$ in y .

The origin of co-ordinates is a corner of the *réseau*, so that negative signs are avoided. The centre of each plate is at the intersection of the lines numbered 13. The co-ordinates are expressed in units of 1 *réseau* interval, and are given to 3 decimals, the unit in the last place representing $0''\cdot3$. The printed numbers are the means of two entirely independent measures, in reversed positions of the plate. Thus for the first star, the first measures were:—

$$d_1 = 10 \qquad x_1 = 5\cdot693 \qquad y_1 = 0\cdot129.$$

The plate was then rotated through 180° in its plane and measured again. The stars were referred to the opposite corner of the *réseau* and appeared in the reverse order, so that the first star became the last, and the figures were now:—

$$d_2 = 10 \qquad x_2 = 20\cdot307 \qquad y_2 = 25\cdot872.$$

The two values of d are directly comparable; the values of x_2 and y_2 were subtracted from $26\cdot000$ by another computer, obtaining

$$x_3 = 5\cdot693 \qquad y_3 = 0\cdot128;$$

and the means of d_1 and d_2 , x_1 and x_3 , y_1 and y_3 are then printed as

$$d = 10 \qquad x = 5\cdot693 \qquad y = 0\cdot129.$$

The differences $x_3 - x_1 = \cdot000$ and $y_3 - y_1 = -\cdot001$ are small. When such differences differ from the mean personality by more than $\cdot005$ (in recent plates by $\cdot004$), the image is measured again.

R. A. 0^h 0^m

Plate 563; 1894 Nov. 17.

Provisional Constants.

A	B	C
+000787	-00146	-2781

D	E	F
+00167	+00753	-2794

Mag. = 14.0 - 1.02√d

No.	d	x	y
1	10	5.693	0.129
2	12	5.782	0.106
3*	20	9.172	0.268
4	10	17.278	0.688
5	13	18.863	0.672
6	12	24.373	0.111
7*	22	1.283	1.154
8	11	1.400	1.615
9	18	2.463	1.043
10*	18	3.995	1.887
11*	11	11.031	1.205
12	20	14.056	1.317
13	10	14.068	1.403
14	10	3.283	2.483
15	10	6.094	2.287
16*	12	8.291	2.506
17	10	8.842	2.455
18*	22	10.418	2.438
19*	42	12.487	2.173
20	13	15.733	2.968
21	12	18.641	2.978
22*	13	20.708	2.075
23	11	25.974	2.874
24	15	0.133	3.868
25	10	15.212	3.258
26	10	15.840	3.971
27	12	17.675	3.016
28	14	17.907	3.595
29	6	20.414	3.402
30	12	21.914	3.357
31	20	0.304	4.313
32*	28	1.714	4.757
33	9	9.222	4.313
34	10	16.285	4.390
35*	19	16.437	4.865
36	22	25.287	4.656
37	9	5.224	5.593
38	21	9.470	5.873
39*	24	9.485	5.865
40	12	10.185	5.110
41	9	11.421	5.828
42	11	19.392	5.896
43	10	20.385	5.157
44	12	21.706	5.084
45	13	24.776	5.965
46	28	25.621	5.427
47	10	15.541	6.884
48	10	22.429	6.617
49	10	25.368	6.350
50	31	0.891	7.259
51	11	1.781	7.766
52	11	7.059	7.685
53	12	7.075	7.096
54	13	11.921	7.984
55	18	17.790	7.183
56	12	19.850	7.684

57	10	22.157	7.358	131*	24	16.874	16.161
58*	22	3.863	8.276	132	10	17.251	16.907
59*	29	5.241	8.393	133	9	18.984	16.989
60	10	6.185	8.128	134	11	25.296	16.076
61	8	8.317	8.724	135	12	0.984	17.249
62	10	11.483	8.985	136	16	1.357	17.467
63	8	12.824	8.471	137	10	2.832	17.015
64	18	17.596	8.915	138	9	4.456	17.956
65	17	24.842	8.958	139	10	7.826	17.211
66*	20	1.447	9.110	140	10	10.195	17.335
67	10	2.928	9.834	141	10	14.636	17.268
68*	36	6.687	9.152	142	12	16.969	17.850
69	10	10.189	9.294	143*	21	17.221	17.623
70	9	10.364	9.603	144	10	17.696	17.227
71	10	13.816	9.766	145	8	18.342	17.881
72*	34	15.139	9.461	146	10	18.397	17.889
73	10	18.358	9.623	147	8	19.408	17.117
74*	52	23.109	9.162	148	9	19.498	17.494
75	12	0.794	10.707	149	13	2.256	18.862
76	9	1.422	10.332	150	15	2.501	18.506
77	12	3.726	10.080	151	8	2.954	18.043
78	8	8.396	10.666	152	12	3.149	18.651
79	16	10.981	10.438	153	22	6.910	18.340
80	9	13.598	10.737	154	11	7.293	18.602
81	9	21.473	10.904	155	20	8.112	18.866
82	10	24.144	10.148	156*	20	13.865	18.143
83	12	24.295	10.026	157	14	16.083	18.347
84*	41	3.377	11.257	158*	47	16.568	18.533
85	8	4.530	11.460	159	12	25.068	18.260
86	12	11.184	11.652	160*	30	1.666	19.949
87	10	15.661	11.509	161	9	3.513	19.064
88	10	17.909	11.658	162	10	9.868	19.500
89	10	18.115	11.547	163	9	10.363	19.641
90	18	0.438	12.339	164	11	11.507	19.008
91	14	2.733	12.896	165	8	13.373	19.742
92*	32	6.276	12.667	166*	20	17.214	19.706
93	10	8.268	12.981	167	10	20.152	19.584
94*	20	13.509	12.686	168	10	20.634	19.566
95*	39	16.677	12.816	169	14	21.093	19.409
96	10	21.504	12.905	170*	138	21.341	19.396
97	18	0.071	13.926	171*	31	2.697	20.795
98	10	0.845	13.274	172	11	3.623	20.666
99	10	2.263	13.903	173	13	4.657	20.914
100	11	9.858	13.784	174	8	6.176	20.934
101	10	11.631	13.854	175	10	6.426	20.177
102	10	12.716	13.266	176	15	8.247	20.399
103	10	19.787	13.497	177	10	8.486	20.596
104	10	24.066	13.960	178	10	9.019	20.264
105*	38	0.497	14.327	179	8	11.058	20.133
106	10	5.769	14.111	180	10	14.474	20.299
107	10	7.931	14.356	181	10	17.386	20.046
108*	23	18.841	14.728	182	10	19.503	20.650
109	9	20.148	14.644	183	10	20.145	20.998
110	13	22.172	14.896	184	10	4.038	21.683
111	10	22.915	14.567	185	10	11.779	21.856
112	9	25.133	14.408	186	8	20.096	21.423
113	20	25.255	14.646	187	8	21.895	21.711
114	21	25.366	14.701	188	9	22.845	21.628
115	9	5.453	15.283	189	29	0.769	22.256
116	22	6.766	15.131	190	12	3.171	22.603
117	11	7.489	15.936	191	10	4.484	22.917
118	8	12.621	15.549	192	12	6.645	22.886
119	8	12.711	15.009	193	10	13.721	22.848
120	8	17.526	15.507	194	20	14.331	22.767
121	12	21.795	15.319	195	10	15.660	22.733
122*	24	22.711	15.837	196	10	16.219	22.891
123	12	24.923	15.787	197	10	17.263	22.414
124	22	4.757	16.756	198	10	17.580	22.792
125	10	7.519	16.386	199	12	17.775	22.524
126	8	11.450	16.014	200	8	18.082	22.406
127	9	13.250	16.699	201	9	18.679	22.725
128	10	13.250	16.451	202	10	19.306	22.283
129	10	14.966	16.744	203	12	24.444	22.494
130	8	16.522	16.149	204	10	1.891	23.180

205	10	12.821	23.222
206	12	13.951	23.798
207	12	14.067	23.464
208	10	15.758	23.445
209	13	7.471	24.078
210	10	14.109	24.827
211	9	18.461	24.372
212	11	18.570	24.031
213	13	18.996	24.640
214	12	20.492	24.066
215*	32	0.156	25.619
216	9	11.656	25.097
217	18	12.335	25.233
218	14	12.934	25.856
219	10	14.880	25.134
220	10	16.945	25.939
221*	36	17.816	25.875
222	10	19.535	25.501
223	13	19.894	25.498

R. A. 0^h 9^m

Plate 1253; 1898 Dec. 9.

Provisional Constants.

A	B	C
-00063	+00486	-3672

D	E	F
-00496	-00023	-0203

Mag. = 14.2 - 1.02√d

No.	d	x	y
301	15	2.341	0.804
302*	36	6.198	0.417
303	10	10.281	0.178
304	11	12.306	0.013
305*	30	14.179	0.864
306	22	17.418	0.357
307*	27	19.514	0.846
308	12	19.658	0.168
309	11	19.897	0.847
310	12	20.479	0.205
311	12	21.664	0.921
312	11	2.114	1.967
313	12	5.274	1.124
314	11	7.411	1.632
315	9	12.843	1.755
316*	26	15.027	1.416
317*	32	15.346	1.557
318	10	8.920	2.944
319	9	11.314	2.283
320	12	12.743	2.722
321	10	13.052	2.429
322	10	16.111	2.572
323	10	20.579	2.437
324	10	22.618	2.324
325	10	1.675	3.037
326*	12	2.006	3.513
327	10	2.140	3.928
328	8	9.098	3.346
329	14	15.053	3.744
330	12	15.762	3.258
331	14	16.510	3.693
332	12	19.154	3.736

333	13	21.692	3.863
334	10	21.986	3.187
335	10	22.161	3.590
336	12	22.809	3.258
337	10	25.544	3.025
338	21	1.034	4.826
339	10	3.536	4.624
340	12	5.686	4.431
341	12	6.045	4.633
342	11	7.456	4.369
343	19	8.317	4.347
344	9	14.247	4.323
345	10	16.204	4.433
346	21	16.695	4.944
347	13	21.894	4.124
348	12	22.029	4.878
349	22	1.387	5.584
350	10	2.273	5.869
351	10	3.606	5.941
352	9	3.895	5.347
353	12	3.986	5.297
354	9	6.422	5.104
355	8	6.685	5.178
356	10	7.034	5.221
357	10	12.302	5.668
358	11	12.956	5.603
359	9	13.526	5.108
360	12	14.845	5.694
361	9	16.907	5.805
362	10	18.183	5.856
363*	22	18.207	5.210
364	10	22.784	5.486
365	12	0.557	6.134
366	12	1.164	6.503
367	10	3.620	6.388
368	12	9.538	6.684
369	11	13.273	6.287
370	10	18.129	6.785
371	10	7.785	7.283
372	10	11.114	7.617
373	10	13.860	7.350
374	18	14.067	7.025
375	10	25.279	7.502
376	10	5.314	8.210
377	10	5.576	8.668
378*	29	6.009	8.985
379	12	18.209	8.620
380	10	21.218	8.088
381*	21	23.043	8.312
382	8	24.893	8.317
383	13	0.704	9.104
384	11	3.915	9.566
385	20	5.652	9.408
386	10	5.743	9.946
387	10	6.073	9.703
388	12	6.581	9.697
389*	22	12.869	9.123
390	14	17.457	9.272
391	10	18.427	9.805
392*	22	23.558	9.902
393	10	0.036	10.298
394	12	0.186	10.174
395	12	2.995	10.129
396	18	10.884	10.048
397	10	13.486	10.537
398	10	13.488	10.959
399	17	13.539	10.041
400	8	13.568	10.507
401	12	18.915	10.256
402*	28	20.245	10.000
403*	21	20.787	10.148
404	12	24.344	10.088
405	7	24.776	10.104
406	17	25.553	10.732

407	9	25°704	10°759	481	9	12°789	18°767	657	9	22°986	5°677	731	10	5°347	11°147
408	12	2°575	11°537	482	10	15°237	18°409	658	14	25°611	5°134	732	10	6°413	11°497
409	17	4°320	11°146	483*	16	15°697	18°100	659	14	25°808	5°910	733	10	8°625	11°054
410	10	5°882	11°424	484	11	22°006	18°054	660	10	2°603	6°603	734	10	12°147	11°646
411*	42	6°528	11°349	485	12	24°986	18°614	661*	21	4°186	6°384	735	8	13°881	11°863
412	10	6°787	11°306	486*	22	4°266	19°920	662	10	5°765	6°443	736	10	16°223	11°407
413*	24	8°702	11°124	487	8	4°770	19°803	663	13	5°827	6°407	737	10	16°835	11°694
414	16	11°047	11°761	488	10	5°383	19°035	664	10	6°605	6°771	738	10	17°475	11°511
415	9	11°065	11°780	489	10	5°855	19°025	665	10	7°614	6°783	739*	22	20°541	11°731
416	10	14°116	11°874	490	10	5°880	19°894	666*	34	8°853	6°152	740	9	20°867	11°569
417	20	14°982	11°814	491	10	10°483	19°067	667	10	9°630	6°030	741	14	21°895	11°922
418	10	16°746	11°229	492*	14	10°844	19°917	668	10	10°298	6°296	742	9	22°097	11°424
419	18	20°729	11°560	493*	12	12°375	19°022	669	10	15°776	6°556	743	10	3°252	12°813
420	14	5°192	12°150	494	10	16°579	19°207	670*	23	19°079	6°381	744	10	7°468	12°568
421	12	5°426	12°511	495	13	19°566	19°240	671	10	20°242	6°177	745	9	10°168	12°167
422	14	5°798	12°975	496	9	22°093	19°643	672	10	20°638	6°946	746	20	10°586	12°586
423	10	8°609	12°242	497	10	23°166	19°233	673*	25	22°249	6°116	747*	29	21°932	12°045
424	9	10°286	12°342	498	20	2°672	20°707	674	12	25°094	6°484	748	11	25°642	12°866
425	8	10°680	12°238	499	10	3°273	20°685	675	10	1°386	7°711	749	17	1°602	13°444
426	10	14°960	12°222	500	10	3°289	20°068	676	12	2°605	7°393	750	8	2°756	13°703
427	10	16°541	12°875	501*	25	8°434	20°483	677	9	4°161	7°565	751	9	4°650	13°051
428	10	17°587	12°113	502	10	11°085	20°314	678	10	5°429	7°917	752	9	7°434	13°290
429*	19	18°402	12°615	503	10	15°608	20°892	679*	27	8°521	7°356	753	8	18°366	13°710
430	9	20°162	12°263	504*	14	11°456	21°778	680	10	11°979	7°207	754	10	19°922	13°383
431	8	20°226	12°460	505	10	13°326	21°747	681	10	12°578	7°590	755	11	20°727	13°193
432	10	21°554	12°621	506	10	18°006	21°508	682	16	12°935	7°712	756	8	21°064	13°047
433	12	2°386	13°110	507	22	18°488	21°096	683	10	15°723	7°440	757	14	0°351	14°993
434	12	3°591	13°206	508*	31	18°885	21°748	684*	14	16°869	7°120	758	9	2°124	14°041
435*	48	7°017	13°585	509*	25	18°927	21°826	685*	28	17°869	7°197	759	9	5°930	14°519
436	10	10°328	13°615	510*	19	19°181	21°196	686	10	22°715	7°823	760	9	19°010	14°309
437	11	10°476	13°172	511	10	22°295	21°942	687	10	23°267	7°991	761	9	19°801	14°678
438*	16	12°122	13°666	512	9	22°377	21°993	688	12	24°568	7°234	762	17	22°592	14°701
439	10	12°135	13°670	513	9	23°289	21°633	689	9	1°022	8°534	763	14	25°007	14°854
440	10	13°190	13°630	514	15	0°646	22°541	690	10	3°093	8°664	764	11	1°637	15°725
441*	49	15°774	13°303	515	12	4°028	22°089	691	12	3°350	8°586	765	12	2°643	15°691
442*	24	17°797	13°663	516	12	4°705	22°919	692	9	3°431	8°976	766	10	6°341	15°862
443	17	25°364	13°241	517*	23	5°394	22°193	693	8	5°102	8°290	767	14	7°233	15°927
444	9	0°054	14°084	518	11	9°166	22°336	694*	20	5°229	8°237	768	10	9°089	15°673
445	10	1°126	14°502	519*	29	9°633	22°969	695*	20	6°434	8°677	769	10	16°616	15°508
446	20	1°254	14°731	520	10	12°370	22°718	696*	16	7°987	8°450	770*	20	16°914	15°733
447	21	1°367	14°785	521	10	12°922	22°499	697	9	12°140	8°024	771*	22	23°924	15°616
448*	42	2°867	14°158	522	10	15°613	22°163	698	12	13°837	8°694	772	12	3°373	16°650
449	22	8°982	14°922	523	9	18°654	22°746	699	9	17°098	8°897	773	9	5°264	16°171
450	22	10°397	14°423	524*	23	18°975	22°306	700	12	17°448	8°330	774	9	7°952	16°279
451	10	10°868	14°773	525	11	19°538	22°473	701*	46	24°820	8°343	775	16	21°908	16°540
452	12	11°365	14°748	526*	28	19°880	22°725	702*	18	3°599	9°765	776*	14	3°969	17°713
453	20	14°774	14°003	527	10	19°906	22°892	703*	32	9°135	9°489	777*	23	7°446	17°209
454	15	18°462	14°378	528	10	23°503	22°559	704	10	9°502	9°296	778*	19	8°754	17°187
455	8	19°726	14°882	529	23	25°906	22°511	705	14	14°894	9°587	779	9	18°524	17°570
456	9	22°173	14°838	530	10	8°879	23°522	706	12	17°790	9°243	780	10	18°578	17°283
457	10	22°453	14°455	531*	12	16°934	23°834	707	8	18°305	9°872	781	14	20°017	17°094
458	12	24°076	14°759	532	11	19°101	23°213	708	10	22°410	9°464	782*	32	20°193	17°552
459	13	0°952	15°874	533	13	19°755	23°421	709	10	23°146	9°736	783	10	25°086	17°154
460	28	4°151	15°020	534	11	20°191	23°397	710	12	24°192	9°303	784	12	1°351	18°825
461	10	5°373	15°677	535*	38	4°513	24°917	711	14	24°683	9°866	785	9	6°719	18°172
462	14	12°057	15°013	536	10	8°063	24°897	712	11	25°015	9°231	786	17	9°460	18°865
463	10	15°140	15°245	537	12	10°740	24°426	713	12	0°511	10°315	787	9	12°716	18°915
464*	16	15°941	15°125	538	10	10°906	24°873	714	9	0°943	10°321	788	10	14°593	18°422
465*	20	16°054	15°275	539	9	10°959	24°393	715	17	1°736	10°932	789	14	14°768	18°546
466*	24	17°366	15°208	540	10	18°133	24°336	716	10	1°888	10°954	790	10	18°168	18°222
467	9	25°347	15°524	541	14	20°527	24°628	717	13	6°443	10°860	791	21	19°431	18°793
468	10	1°330	16°152	542*	29	5°630	25°509	718	8	6°803	10°706	792	10	21°136	18°843
469	18	6°254	16°932	543*	28	8°160	25°223	719*	41	7°982	10°258	793	10	23°913	18°494
470	11	7°384	16°251	544	14	16°102	25°234	720	8	8°845	10°723	794	10	24°777	18°047
471	10	8°156	16°073	545*	13	16°176	25°219	721	10	9°803	10°741	795*	13	4°355	19°615
472	10	18°322	16°570	546	11	18°025	25°102	722	10	12°145	10°387	796	10	6°197	19°484
473	17	18°872	16°152					723*	22	13°717	10°521	797	10	7°696	19°508
474	10	22°016	16°254					724	11	13°732	10°395	798	8	9°050	19°467
475*	22	3°198	17°966					725	12	15°813	10°464	799	10	10°032	19°988
476	9	5°162	17°026					726	10	16°467	10°813	800	8	10°147	19°697
477	10	22°766	17°968					727	10	18°851	10°755	801	8	10°467	19°386
478	12	1°158	18°324					728	10	19°798	10°693	802	8	11°070	19°680
479*	21	7°287	18°678					729	10	21°765	10°847	803	8	11°303	19°565
480	10	7°562	18°453					730	10	24°830	10°789	804	18	12°812	19°053

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1157*	12	11'351	3'037	1231	10	16'040	7'863	1305	9	23'165	10'530	1379	6	12'291	14'079	1453	6	3'179	18'696
1158	4	12'375	3'780	1232	8	16'196	7'406	1306	6	23'702	10'747	1380	8	13'099	14'503	1454	11	3'701	18'694
1159	7	13'807	3'907	1233	9	18'746	7'870	1307	9	24'534	10'365	1381	4	14'190	14'475	1455	13	5'836	18'281
1160	5	15'630	3'115	1234	7	20'092	7'304	1308*	18	24'688	10'379	1382	12	15'166	14'461	1456	9	6'350	18'360
1161	13	16'074	3'721	1235	7	21'152	7'168	1309	8	24'812	10'996	1383	15	15'984	14'542	1457	7	10'297	18'363
1162	13	16'841	3'069	1236	6	21'205	7'531	1310	4	24'975	10'226	1384	4	16'421	14'090	1458	10	10'546	18'948
1163	12	19'702	3'501	1237	12	21'475	7'670	1311	14	25'235	10'551	1385	5	17'097	14'259	1459	5	12'142	18'508
1164	10	22'868	3'682	1238	5	21'556	7'190	1312	5	1'378	11'300	1386	14	17'406	14'536	1460	9	12'749	18'664
1165	7	22'997	3'361	1239	11	24'868	7'845	1313	4	2'458	11'157	1387*	16	17'983	14'003	1461	4	13'161	18'160
1166	9	23'624	3'245	1240	20	25'045	7'056	1314*	20	5'505	11'757	1388	6	19'681	14'904	1462	6	15'895	18'996
1167	14	2'374	4'192	1241	7	25'290	7'464	1315	6	5'699	11'895	1389	23	21'132	14'982	1463	12	16'865	18'264
1168	6	6'685	4'551	1242	9	2'119	8'579	1316	10	8'076	11'848	1390	13	22'866	14'197	1464	6	23'212	18'934
1169	12	7'867	4'821	1243	5	3'595	8'197	1317	5	8'619	11'039	1391*	19	25'115	14'155	1465*	22	23'523	18'760
1170	7	8'715	4'935	1244	11	4'651	8'630	1318	9	9'358	11'289	1392	16	0'094	15'111	1466	10	23'800	18'978
1171	12	10'160	4'589	1245	10	5'323	8'378	1319	4	9'777	11'753	1393	12	1'310	15'476	1467	10	23'832	18'081
1172	10	11'051	4'863	1246	4	5'668	8'091	1320	12	13'677	11'846	1394	15	2'404	15'097	1468	12	24'319	18'195
1173	10	14'564	4'716	1247	4	7'247	8'058	1321	7	14'493	11'579	1395	6	4'583	15'404	1469	4	5'204	19'010
1174*	20	15'389	4'674	1248	12	9'337	8'216	1322	13	17'024	11'457	1396	12	6'825	15'536	1470	5	5'410	19'891
1175	9	18'037	4'695	1249	6	9'614	8'797	1323*	26	17'641	11'736	1397	6	8'356	15'269	1471	10	5'759	19'877
1176	11	19'074	4'275	1250	10	11'230	8'282	1324	5	18'858	11'694	1398	13	11'695	15'397	1472*	29	6'086	19'794
1177	4	20'235	4'608	1251	5	14'825	8'225	1325	20	19'931	11'068	1399	8	12'358	15'131	1473	5	8'177	19'524
1178	4	20'936	4'617	1252	8	15'190	8'969	1326	5	20'782	11'429	1400*	26	13'298	15'076	1474	11	9'016	19'450
1179	25	22'042	4'765	1253	8	16'286	8'780	1327	6	22'565	11'588	1401	5	13'873	15'053	1475	4	10'206	19'622
1180	7	23'263	4'863	1254	4	16'835	8'600	1328	10	24'987	11'045	1402	7	15'053	15'767	1476	10	11'427	19'032
1181	10	25'682	4'611	1255	7	18'749	8'970	1329	4	2'775	12'917	1403	6	17'498	15'216	1477	5	12'765	19'252
1182	7	3'705	5'534	1256	17	20'725	8'813	1330	12	3'221	12'980	1404	4	18'295	15'301	1478	16	12'827	19'506
1183	5	5'131	5'365	1257	10	23'585	8'092	1331	4	3'409	12'495	1405	7	18'513	15'428	1479	11	13'396	19'724
1184*	13	6'552	5'559	1258	14	24'139	8'186	1332	6	6'759	12'161	1406	11	18'606	15'314	1480	8	14'282	19'253
1185	12	9'589	5'239	1259	11	24'243	8'399	1333	15	6'813	12'764	1407	10	19'318	15'324	1481	5	14'429	19'068
1186	8	9'656	5'055	1260	5	24'450	8'284	1334	10	7'021	12'734	1408*	32	19'484	15'425	1482	10	14'596	19'755
1187	5	9'987	5'490	1261	10	24'786	8'689	1335	5	8'326	12'885	1409	6	20'677	15'125	1483	10	15'135	19'386
1188	11	11'312	5'373	1262	10	0'244	9'290	1336	9	8'734	12'026	1410	4	21'312	15'690	1484	12	16'208	19'710
1189	14	11'391	5'459	1263	19	2'706	9'669	1337	4	11'703	12'081	1411	9	21'420	15'134	1485	7	17'463	19'574
1190	8	13'176	5'153	1264	10	4'090	9'253	1338	11	11'913	12'656	1412	9	24'473	15'035	1486	14	18'226	19'595
1191	4	14'021	5'344	1265	12	6'835	9'855	1339	7	12'126	12'279	1413	7	25'600	15'165	1487	9	18'426	19'832
1192	4	14'612	5'578	1266	6	9'811	9'420	1340	12	13'341	12'617	1414	4	1'925	16'836	1488	7	19'919	19'570
1193	5	14'660	5'741	1267	12	9'851	9'795	1341	19	14'770	12'505	1415	7	4'118	16'318	1489	4	20'267	19'373
1194	6	15'220	5'422	1268	10	10'124	9'544	1342	5	15'227	12'494	1416	4	10'457	16'616	1490	14	21'393	19'169
1195*	26	15'652	5'638	1269	6	13'358	9'300	1343	6	16'400	12'706	1417	8	10'541	16'750	1491	12	22'456	19'737
1196	8	15'947	5'892	1270	18	13'710	9'508	1344	7	17'052	12'616	1418*	27	11'730	16'480	1492	14	24'720	19'757
1197	9	16'712	5'471	1271	4	16'931	9'811	1345	7	21'193	12'619	1419	10	14'383	16'812	1493	12	25'076	19'516
1198	7	17'208	5'834	1272	19	18'150	9'921	1346	8	21'361	12'415	1420	4	14'493	16'309	1494*	20	1'351	20'591
1199	12	17'351	5'680	1273	9	18'220	9'225	1347	8	21'643	12'380	1421	5	15'170	16'460	1495*	22	4'027	20'893
1200	9	21'195	5'085	1274	5	18'594	9'116	1348	15	25'025	12'371	1422	5	15'778	16'456	1496	4	5'668	20'028
1201	9	21'825	5'710	1275	4	19'705	9'295	1349	8	25'425	12'238	1423	10	15'830	16'476	1497	20	6'767	20'030
1202	10	23'135	5'149	1276	7	19'876	9'692	1350	11	4'941	13'065	1424	6	17'142	16'182	1498	9	9'622	20'976
1203	12	23'301	5'870	1277	6	20'154	9'181	1351	11	5'877	13'184	1425	7	18'633	16'483	1499	11	9'780	20'106
1204*	31	23'579	5'610	1278	5	20'701	9'709	1352	5	7'504	13'620	1426	5	18'903	16'475	1500	16	14'826	20'965
1205	9	25'954	5'797	1279	4	23'548	9'572	1353	12	10'915	13'704	1427	8	20'190	16'069	1501	10	15'240	20'370
1206	13	0'029	6'990	1280	6	24'200	9'306	1354	8	13'624	13'507	1428	13	20'611	16'195	1502*	20	15'810	20'866
1207	7	4'020	6'202	1281	7	1'557	10'788	1355	7	13'643	13'482	1429	6	22'412	16'625	1503	12	16'349	20'307
1208	5	5'267	6'299	1282	11	2'084	10'739	1356	7	17'715	13'542	1430*	12	24'054	16'327	1504	6	18'805	20'209
1209	7	8'034	6'052	1283	6	2'234	10'800	1357	7	18'489	13'802	1431*	18	25'048	16'586	1505	8	18'919	20'230
1210	19	8'363	6'984	1284	4	2'301	10'846	1358	9	18'871	13'169	1432	6	0'137	17'139	1506	7	19'617	20'120
1211	4	8'555	6'367	1285	10	6'845	10'292	1359	5	20'099	13'656	1433	5	6'175	17'837	1507	5	19'962	20'086
1212	6	8'597	6'737	1286*	25	6'973	10'725	1360	7	20'354	13'200	1434	4	6'204	17'456	1508	7	20'081	20'826
1213	6	10'617	6'203	1287	5	7'698	10'432	1361	11	21'821	13'786	1435	8	7'244	17'603	1509	9	20'135	20'991
1214	8	10'682	6'142	1288	7	8'235	10'070	1362	10	22'542	13'018	1436	6	9'669	17'755	1510*	28	20'666	20'676
1215	16	12'425	6'974	1289	14	8'891	10'711	1363	7	22'578	13'942	1437	10	10'266	17'177	1511*	14	21'090	20'383
1216*	43	13'308	6'670	1290	5	10'356	10'750	1364*	17	23'525	13'083	1438	6	11'081	17'870	1512	6	21'948	20'297
1217	14	14'858	6'217	1291	9	10'887	10'520	1365*	22	23'660	13'185	1439	10	12'625	17'185	1513	7	22'052	20'499
1218	17	18'751	6'663	1292	4	11'462	10'640	1366	6	25'077	13'997	1440	4	13'115	17'609	1514	7	23'284	20'615
1219	7	24'657	6'360	1293	6	12'209	10'123	1367	4	25'082	13'436	1441	14	13'743	17'802	1515	7	23'574	20'166
1220	10	25'259	6'443	1294	6	12'465	10'274	1368	9	25'313	13'741	1442	6	16'113	17'129	1516*	45	24'488	20'315
1221	8	2'411	7'317	1295	11	12'794	10'066	1369	12	0'664	14'575	1443	15	20'066	1				

1527	6	14°795	21°771	1601	5	13°345	25°726	1744	6	7°742	4°946	1818	11	12°645	10°936	1892	8	17°774	18°275
1528	11	16°113	21°640	1602	5	14°197	25°509	1745	12	8°093	4°314	1819	12	16°099	10°334	1893	6	18°073	18°342
1529	5	16°123	21°773	1603	7	14°470	25°490	1746	12	13°504	4°504	1820	6	17°354	10°382	1894	5	22°414	18°401
1530	4	18°723	21°547	1604	14	16°465	25°279	1747	12	17°176	4°145	1821	6	0°571	11°436	1895	6	22°859	18°015
1531	6	19°623	21°961	1605	7	17°915	25°144	1748	6	17°580	4°165	1822	6	0°745	11°484	1896	6	24°306	18°654
1532	14	19°823	21°185	1606	12	20°466	25°674	1749	11	22°298	4°398	1823*	36	9°440	11°557	1897*	30	24°394	18°254
1533	14	20°965	21°926	1607	15	20°915	25°057	1750	6	1°392	5°045	1824*	16	14°579	11°345	1898	5	24°850	18°297
1534*	16	22°085	21°908	1608	5	24°608	25°162	1751	5	3°156	5°817	1825	5	23°258	11°570	1899	8	0°895	19°960
1535	6	23°065	21°433					1752	12	8°025	5°413	1826	14	0°794	12°810	1900	10	7°690	19°579
1536	12	23°956	21°609					1753*	10	8°041	5°636	1827	10	4°817	12°465	1901	10	9°130	19°350
1537	8	0°729	22°736					1754	23	10°044	5°775	1828	10	5°974	12°462	1902	6	9°236	19°581
1538	6	1°376	22°993					1755	6	10°066	5°666	1829	6	8°607	12°978	1903	6	11°328	19°488
1539	12	3°266	22°062					1756	14	10°971	5°071	1830	6	8°678	12°396	1904	8	16°024	19°282
1540*	80	6°116	22°100					1757	12	14°485	5°528	1831	5	11°606	12°210	1905	11	16°458	19°705
1541	8	7°730	22°339					1758	6	17°185	5°498	1832	6	13°186	12°704	1906	12	17°364	19°066
1542	11	8°391	22°350					1759	15	18°748	5°712	1833	12	15°492	12°755	1907*	30	19°398	19°275
1543	11	8°626	22°347					1760	8	20°872	5°005	1834	8	17°702	12°195	1908	7	19°850	19°893
1544*	20	9°235	22°280					1761	6	21°177	5°626	1835	7	18°404	12°640	1909	15	20°860	19°355
1545	6	9°384	22°429					1762*	29	21°310	5°304	1836	7	2°617	13°386	1910*	52	21°227	19°337
1546*	29	9°687	22°660					1763	15	25°173	5°615	1837	20	3°855	13°137	1911*	46	0°315	20°759
1547	6	10°644	22°726					1764	6	0°984	6°883	1838	7	6°156	13°258	1912	10	0°540	20°199
1548	8	11°657	22°146					1765	5	1°674	6°231	1839*	10	17°095	13°081	1913	6	3°395	20°362
1549	10	13°274	22°048					1766	8	2°141	6°148	1840	12	17°410	13°926	1914	21	5°202	20°115
1550	10	14°032	22°828					1767	16	2°718	6°187	1841*	18	17°615	13°755	1915	8	6°256	20°675
1551*	17	14°338	22°361					1768	11	3°626	6°228	1842*	43	21°838	13°083	1916	8	6°660	20°716
1552*	26	15°764	22°007					1769	5	7°355	6°975	1843	6	22°680	13°431	1917	6	9°746	20°039
1553*	24	17°177	22°804					1770	14	7°570	6°050	1844	6	25°826	13°723	1918	5	14°555	20°294
1554	12	19°951	22°235					1771	6	8°945	6°806	1845*	20	0°896	14°594	1919	6	17°925	20°965
1555	13	20°130	22°524					1772	10	11°114	6°825	1846	6	1°087	14°178	1920	12	18°389	20°345
1556*	20	23°066	22°265					1773	5	17°221	6°964	1847*	18	5°355	14°518	1921	14	20°450	20°721
1557*	18	24°575	22°325					1774*	21	17°768	6°186	1848	11	8°247	14°115	1922	7	21°060	20°705
1558	7	25°197	22°978					1775	8	17°820	6°587	1849	10	21°478	14°300	1923	8	24°302	20°693
1559	8	25°983	22°705					1776	10	18°431	6°756	1850	5	22°156	14°696	1924	15	8°280	21°540
1560	4	0°465	23°777					1777	14	18°670	6°419	1851	5	22°902	14°448	1925	10	8°964	21°495
1561	11	2°335	23°266					1778	11	19°619	6°889	1852	6	23°571	14°530	1926	7	10°626	21°181
1562	12	3°407	23°782					1779	10	19°670	6°665	1853	20	25°216	14°676	1927	7	12°676	21°645
1563	10	5°573	23°074					1780	6	21°096	6°731	1854	6	25°933	14°430	1928*	21	13°575	21°257
1564	10	5°880	23°774					1781	12	24°900	6°363	1855	5	0°257	15°480	1929	5	15°254	21°985
1565	10	8°205	23°334					1782	22	0°775	7°496	1856	16	2°181	15°611	1930	7	15°294	21°265
1566	6	8°390	23°776					1783	6	1°848	7°415	1857	5	2°566	15°036	1931	6	17°395	21°354
1567	6	8°450	23°769					1784	11	3°197	7°292	1858*	32	4°140	15°143	1932	10	17°687	21°227
1568	13	9°576	23°364					1785	6	4°891	7°882	1859*	34	5°556	15°916	1933	7	18°443	21°535
1569	11	10°143	23°191					1786	5	9°555	7°523	1860*	28	7°231	15°102	1934	8	19°014	21°422
1570	13	10°326	23°295					1787	5	11°784	7°914	1861*	47	9°566	15°025	1935	10	23°427	21°744
1571	6	12°468	23°170					1788	6	15°714	7°664	1862	8	10°630	15°731	1936	10	23°518	21°499
1572	13	13°438	23°940					1789*	20	20°725	7°214	1863	7	12°855	15°084	1937*	16	0°415	22°772
1573	7	16°469	23°367					1790*	18	21°246	7°953	1864	8	13°944	15°334	1938	6	2°225	22°935
1574	7	16°616	23°989					1791	8	0°603	8°285	1865	5	17°775	15°427	1939*	24	2°394	22°246
1575	7	17°413	23°935					1792	8	1°993	8°196	1866	12	20°545	15°729	1940	9	4°995	22°970
1576	13	19°562	23°887					1793	9	2°934	8°336	1867	7	4°505	16°065	1941	5	5°754	22°256
1577	8	19°731	23°186					1794	9	5°668	8°999	1868	5	9°122	16°047	1942	6	7°375	22°237
1578	6	19°919	23°955					1795	12	17°339	8°004	1869	7	9°917	16°153	1943	11	7°894	22°925
1579*	30	24°635	23°941					1796	7	19°710	8°366	1870	8	12°215	16°965	1944*	19	10°905	22°542
1580	11	25°980	23°675					1797*	28	21°275	8°955	1871	6	13°600	16°992	1945	8	11°631	22°071
1581	12	2°727	24°617					1798	6	24°527	8°553	1872	14	14°396	16°636	1946	12	14°947	22°332
1582	6	8°340	24°911					1799*	42	25°284	8°427	1873*	16	14°735	16°880	1947	6	23°185	22°877
1583	4	9°435	24°825					1800	6	0°527	9°127	1874	5	17°304	16°440	1948	6	23°606	22°817
1584	5	11°854	24°607					1801	10	3°677	9°977	1875	5	17°855	16°921	1949	5	24°546	22°111
1585	5	12°158	24°946					1802	12	5°925	9°305	1876	22	23°503	16°644	1950	10	25°983	22°116
1586	7	13°697	24°350					1803	10	7°175	9°357	1877*	18	0°846	17°026	1951*	13	2°568	23°206
1587	12	14°473	24°836					1804*	15	9°828	9°244	1878	6	2°850	17°776	1952	7	3°269	23°789
1588	13	16°236	24°376					1805*	8	12°044	9°401	1879*	17	6°770	17°625	1953	12	11°428	23°051
1589	7	18°251	24°555					1806*	16	17°510	9°946	1880	6	13°360	17°380	1954*	21	14°575	23°855
1590	7	18°800	24°391					1807	16	19°377	9°257	1881	12	18°857	17°925	1955	7	16°009	23°119
1591	12	21°893	24°087					1808	9	19°988	9°063	1882*	20	24°456	17°582	1956	7	21°281	23°450
1592	6	22°833	24°375					1809	19	25°003	9°921	1883	24	24°668	17°355	1957	20	21°485	23°637
1593	6	25°029	24°987					1810	5	0°286	10°808	1884	8	0°128	18°642	1958	8	23°711	23°304
1594*	14	1°219	25°473					1811*	18	0°444	10°819	1885	5	3°854	18°045	1959	26	25°232	23°627
1595	8	3°124	25°928					1812	11	0°990	10°990	1886*	16	5°719	18°287	1960*	32	0°487	24°389
1596	5	7°516	25°666					1813	14	3°263	10°051	1887	11	8°459	18°933	1961	6	1°834	24°114
1597	4	8°778	25°974					1814*	21	11°830	10°798	1888	6	13°712	18°197	1962*	29	5°419	24°686
1598	13	9°310	2																

1966	23	20.586	24.860	2035	8	16.615	5.495	2109	10	8.391	17.670	2257	12	21.480	6.410
1967*	52	21.255	24.260	2036*	16	16.902	5.275	2110	9	16.802	17.543	2258	5	21.921	6.585
1968	27	2.137	25.574	2037	8	18.542	5.675	2111	10	21.240	17.789	2259	6	25.104	6.005
1969	13	6.505	25.195	2038	10	23.056	5.447	2112	10	22.271	17.200	2260	10	2.414	7.515
1970	10	8.164	25.863	2039	12	0.682	6.326	2113	8	24.225	17.265	2261	10	4.904	7.691
1971	36	13.609	25.959	2040	12	6.629	6.241	2114	9	0.279	18.727	2262	7	5.075	7.610
1972	10	14.559	25.345	2041*	21	9.077	6.133	2115*	28	0.354	18.323	2263	9	8.210	7.055
1973	6	14.814	25.542	2042	9	9.723	6.806	2116	10	4.380	18.423	2264	5	14.915	7.847
1974	6	14.855	25.695	2043	9	10.147	6.772	2117*	51	8.369	18.314	2265	6	18.702	7.840
1975*	25	17.916	25.504	2044	10	23.357	6.917	2118	10	15.358	18.478	2266	5	20.576	7.291
1976*	16	18.764	25.807	2045*	18	23.674	6.589	2119	8	16.112	18.707	2267	5	21.449	7.566
1977	18	23.025	25.297	2046	11	23.675	6.794	2120*	29	16.781	18.403	2268*	18	23.666	7.146
1978	19	24.031	25.143	2047	9	24.990	6.058	2121*	14	16.872	18.756	2269	7	3.579	8.890
				2048*	21	25.317	6.554	2122	10	20.580	18.057	2270	7	10.162	8.105
				2049*	22	5.000	7.299	2123*	11	23.192	18.542	2271	15	11.334	8.034
				2050	8	9.111	7.637	2124	9	25.383	18.311	2272	7	12.295	8.866
				2051*	20	9.862	7.985	2125	13	3.697	19.161	2273	6	12.600	8.052
				2052	10	16.740	7.729	2126	8	5.404	19.250	2274	5	19.105	8.276
				2053	9	22.775	7.385	2127*	25	5.601	19.750	2275	5	20.884	8.940
				2054*	39	1.100	8.404	2128	7	7.499	19.178	2276	6	21.929	8.581
				2055	10	9.451	8.935	2129	12	9.415	19.244	2277	6	22.065	8.522
				2056	7	17.197	8.021	2130	6	19.039	19.924	2278	12	25.215	8.541
				2057	9	19.426	8.474	2131	7	20.537	19.634	2279	5	1.006	9.435
				2058	18	0.840	9.915	2132*	28	4.242	20.368	2280	6	3.400	9.236
				2059	14	3.165	9.727	2133	10	7.322	20.165	2281	8	5.734	9.275
				2060	10	3.779	9.550	2134*	12	8.625	20.009	2282	5	6.768	9.185
				2061	8	9.880	9.820	2135	8	9.127	20.232	2283	6	7.350	9.936
				2062	10	14.327	9.249	2136	8	10.187	20.584	2284	6	7.669	9.781
				2063	7	24.774	9.401	2137	11	15.087	20.259	2285	8	11.019	9.091
				2064	6	10.120	10.180	2138	18	25.221	20.365	2286	15	11.215	9.899
				2065*	26	18.301	10.180	2139	10	7.592	21.385	2287	5	12.888	9.110
				2066	7	21.050	10.737	2140*	21	10.979	21.955	2288*	26	14.660	9.044
				2067*	30	23.943	10.314	2141	10	11.928	21.249	2289	8	17.845	9.411
				2068	10	2.196	11.570	2142*	13	14.336	21.565	2290	8	18.366	9.844
				2069	8	6.164	11.204	2143	15	14.496	21.675	2291	8	20.959	9.555
				2070	12	11.934	11.294	2144	19	16.149	21.285	2292*	33	22.349	9.383
				2071	10	14.200	11.999	2145	12	20.830	21.794	2293	18	25.276	9.495
				2072	11	25.752	11.439	2146	13	2.018	22.194	2294*	29	0.199	10.355
				2073*	10	8.875	12.454	2147	5	9.400	22.099	2295	9	3.695	10.105
				2074	7	11.323	12.832	2148	10	10.245	22.849	2296	11	3.944	10.517
				2075	12	11.920	12.138	2149*	17	10.805	22.713	2297	6	6.703	10.819
				2076	10	21.640	12.575	2150	10	11.241	22.338	2298*	30	7.805	10.825
				2077	6	1.732	13.737	2151	6	15.631	22.969	2299	6	15.676	10.417
				2078*	50	1.927	13.134	2152	9	21.283	22.892	2300	6	17.945	10.234
				2079*	10	8.571	13.795	2153	11	24.968	22.950	2301	6	17.946	10.044
				2080*	10	12.011	13.378	2154	28	1.283	23.725	2302	5	18.146	10.841
				2081*	18	22.680	13.676	2155*	12	3.100	23.352	2303	5	23.705	10.387
				2082	20	1.130	14.705	2156	13	3.142	23.510	2304	5	0.187	11.429
				2083	4	1.846	14.445	2157	12	3.781	23.567	2305	10	2.016	11.436
				2084	10	3.954	14.002	2158	10	7.270	23.299	2306	5	5.196	11.550
				2085*	12	4.008	14.995	2159	9	11.772	23.710	2307	6	5.535	11.990
				2086	6	4.042	14.480	2160*	11	12.252	23.117	2308	5	8.605	11.950
				2087	10	7.160	14.221	2161	10	18.105	23.026	2309	6	9.238	11.325
				2088	10	7.689	14.036	2162	10	7.081	24.844	2310	14	9.945	11.540
				2089	7	7.962	14.552	2163*	30	8.538	24.735	2311	6	10.051	11.060
				2090*	20	13.927	14.510	2164	10	15.759	24.826	2312	7	20.990	11.084
				2091*	18	18.259	14.883	2165*	30	23.765	24.510	2313	14	21.105	11.464
				2092	7	18.785	14.281	2166	24	0.098	25.274	2314	10	21.144	11.434
				2093	7	2.041	15.813	2167	25	24.157	25.483	2315	6	21.199	11.379
				2094*	30	5.305	15.985	2168*	23	25.370	25.082	2316	12	25.335	11.782
				2095	6	16.560	15.671					2317	8	25.586	11.957
				2096	8	16.943	15.750					2318*	33	3.220	12.582
				2097	15	20.197	15.760					2319	9	4.186	12.915
				2098	8	21.855	15.633					2320*	26	6.850	12.432
				2099	8	4.639	16.444					2321	6	8.223	12.056
				2100	6	6.830	16.029					2322	12	8.492	12.235
				2101	6	8.757	16.271					2323*	26	9.335	12.795
				2102	8	9.009	16.379					2324	7	10.149	12.946
				2103	10	11.687	16.715					2325	10	13.127	12.467
				2104	12	25.680	16.012					2326	8	13.876	12.960
				2105*	18	0.411	17.645					2327	10	15.458	12.420
				2106	23	0.620	17.411					2328*	27	17.908	12.101
				2107	11	3.526	17.720					2329	5	18.856	12.165
				2108	9	6.290	17.761					2330	20	20.845	12.039

R. A. 1^h 3^m

Plate 1257; 1898 Dec. 19.

Provisional Constants.

A B C
-00037 +00343 -2695D E F
-00533 -00025 -1810Mag. = 14.2 - 1.02 $\sqrt{d}$

No.	d	x	y
2201	20	0.677	0.318
2202	12	6.800	0.634
2203	8	14.217	0.780
2204	10	18.023	0.503
2205	10	18.380	0.442
2206	7	3.804	1.246
2207	5	6.552	1.607
2208	5	7.954	1.905
2209	12	8.673	1.696
2210	9	9.057	1.545
2211	16	21.834	1.172
2212	18	25.605	1.465
2213*	26	25.878	1.733
2214	17	7.646	2.277
2215	7	8.625	2.551
2216	6	11.716	2.984
2217	18	12.319	2.174
2218	20	12.400	2.538
2219*	24	0.999	3.730
2220*	20	2.978	3.304
2221*	25	4.127	3.610
2222	21	6.257	3.518
2223	6	7.689	3.345
2224	21	10.100	3.105
2225	7	10.997	3.621
2226	5	13.034	3.056
2227	5	13.056	3.410
2228	6	18.089	3.525
2229	5	18.774	3.302
2230	14	1.270	4.145
2231	14	5.894	4.715
2232	14	8.917	4.541
2233	5	11.974	4.325
2234	10	15.295	4.510
2235*	44	18.773	4.794
2236	12	19.026	4.435
2237	12	22.344	4.039
2238*	26	0.446	5.006
2239	6	11.013	5.597
2240	8	14.441	5.117
2241	8	16.053	5.779
2242	8	17.896	5.787
2243	6	22.666	5.164
2244	7	1.156	6.114
2245*	21	1.491	6.597
2246*	24	3.774	6.196
2247	5	3.801	6.124
2248	8	6.030	6.395
2249	5	11.054	6.324
2250	6	15.622	6.444
2251	6	15.711	6.823
2252	6	15.715	6.809
2253	5	16.805	6.481
2254	16	16.844	6.245
2255*	27	17.190	6.895
2256*	22	19.415	6.625

2331	6	23°502	12°566	2405	12	20°637	19°450	2557	6	19°300	4°225	2631	7	4°047	12°465
2332	5	24°616	12°186	2406*	11	23°981	19°792	2558	8	25°323	4°896	2632	15	4°277	12°031
2333	14	24°814	12°194	2407	13	1°657	20°301	2559	8	0°755	5°740	2633	6	10°018	12°233
2334	6	1°765	13°394	2408	12	8°185	20°717	2560*	18	10°461	5°755	2634	21	15°696	12°201
2335	5	2°180	13°796	2409	6	8°762	20°701	2561*	60	11°200	5°935	2635	11	24°597	12°325
2336	8	4°267	13°549	2410	6	8°984	20°636	2562	6	12°680	5°368	2636	8	25°178	12°546
2337	23	7°375	13°744	2411*	26	13°846	20°455	2563*	48	13°548	5°497	2637	16	5°065	13°647
2338	8	7°722	13°234	2412	6	17°825	20°424	2564	6	14°640	5°752	2638	6	8°659	13°435
2339	6	11°215	13°521	2413	25	18°496	20°004	2565	6	16°974	5°930	2639*	49	8°872	13°066
2340	6	15°314	13°650	2414	6	22°908	20°374	2566	12	17°026	5°184	2640*	17	8°885	13°294
2341	10	15°561	13°014	2415	11	22°919	20°166	2567*	31	17°647	5°778	2641	6	9°268	13°770
2342	6	16°799	13°416	2416	5	1°726	21°600	2568	7	20°322	5°434	2642	5	9°596	13°114
2343	6	16°826	13°105	2417	6	6°029	21°053	2569	6	23°877	5°306	2643	8	11°447	13°171
2344	10	21°188	13°903	2418	5	7°778	21°691	2570	6	8°463	6°182	2644	11	15°959	13°487
2345	8	21°813	13°907	2419	5	9°763	21°070	2571	6	8°612	6°630	2645	7	17°592	13°776
2346	6	3°254	14°615	2420	7	10°487	21°136	2572	6	8°866	6°541	2646	6	18°552	13°561
2347*	13	14°635	14°875	2421	7	12°817	21°470	2573	18	11°733	6°995	2647	10	19°200	13°781
2348*	38	16°857	14°789	2422	5	14°332	21°600	2574	8	17°114	6°856	2648	5	21°446	13°876
2349	14	18°478	14°222	2423	6	18°151	21°540	2575	6	22°749	6°194	2649	26	22°685	13°936
2350	8	20°349	14°055	2424	10	18°374	21°023	2576	19	25°660	6°600	2650	10	23°095	13°994
2351	10	21°063	14°846	2425	6	20°925	21°874	2577	7	25°713	6°827	2651	8	25°874	13°616
2352	6	22°589	14°729	2426	9	1°455	22°869	2578	9	4°576	7°911	2652	23	0°283	14°065
2353	16	24°490	14°323	2427	6	11°270	22°925	2579*	38	4°757	7°028	2653	8	6°705	14°095
2354	14	2°030	15°975	2428*	27	11°619	22°824	2580	6	9°982	7°284	2654	6	10°265	14°172
2355	10	2°645	15°938	2429	10	16°443	22°032	2581	6	11°414	7°404	2655	6	10°912	14°363
2356	12	3°345	15°174	2430	6	17°560	22°654	2582	14	12°294	7°064	2656	6	13°381	14°253
2357	5	4°656	15°035	2431	16	18°765	22°751	2583	6	17°527	7°816	2657*	34	15°040	14°204
2358	7	7°805	15°346	2432*	20	20°772	22°536	2584	9	19°507	7°531	2658	6	16°897	14°989
2359	7	8°905	15°285	2433*	18	22°169	22°388	2585	8	21°307	7°900	2659	6	25°666	14°347
2360	16	11°784	15°701	2434	12	22°498	22°459	2586	7	25°157	7°327	2660	21	0°869	15°002
2361	13	13°260	15°845	2435	6	5°340	23°758	2587	15	0°907	8°270	2661	18	1°692	15°131
2362	8	14°350	15°905	2436	6	6°154	23°595	2588	5	5°518	8°234	2662	6	3°216	15°168
2363	11	20°201	15°855	2437	6	6°585	23°195	2589	6	7°635	8°520	2663	8	3°458	15°085
2364	16	25°056	15°270	2438	12	8°251	23°191	2590	6	13°571	8°116	2664*	25	3°651	15°327
2365	14	25°875	15°415	2439	16	9°012	23°240	2591	16	14°402	8°535	2665	12	6°821	15°289
2366	6	2°513	16°835	2440	7	10°274	23°610	2592	6	15°523	8°929	2666	6	10°160	15°545
2367	5	4°147	16°437	2441	8	12°619	23°281	2593	10	17°574	8°924	2667	6	12°745	15°596
2368	5	4°305	16°009	2442	8	15°530	23°920	2594	6	21°045	8°537	2668	5	15°425	15°945
2369	5	6°602	16°812	2443	12	15°657	23°765	2595	6	24°305	8°511	2669	8	19°067	15°463
2370*	56	12°255	16°807	2444	6	16°266	23°582	2596	22	0°989	9°224	2670	5	19°136	15°315
2371	20	18°135	16°632	2445	7	18°490	23°043	2597	12	1°906	9°142	2671	8	21°425	15°470
2372	10	22°741	16°359	2446*	29	0°289	24°442	2598	8	1°926	9°300	2672*	90	21°880	15°045
2373	12	24°138	16°039	2447*	18	1°895	24°979	2599	6	1°962	9°086	2673*	48	22°005	15°814
2374	7	0°612	17°245	2448*	22	4°343	24°878	2600	11	3°122	9°105	2674*	37	22°284	15°854
2375	6	0°695	17°045	2449	14	8°766	24°216	2601	15	3°515	9°586	2675	6	25°550	15°646
2376	8	8°115	17°814	2450	5	12°735	24°044	2602	22	5°657	9°597	2676	5	2°125	16°354
2377	6	9°308	17°731	2451	12	13°334	24°976	2603	11	10°035	9°349	2677	6	5°582	16°035
2378	5	10°448	17°575	2452	12	13°394	24°116	2604*	22	10°348	9°332	2678	10	9°250	16°398
2379*	24	11°731	17°568	2453	10	14°426	24°167	2605	8	19°240	9°597	2679	6	10°884	16°466
2380	9	16°980	17°285	2454	5	17°213	24°585	2606	19	9°163	10°434	2680	5	12°040	16°561
2381	6	22°389	17°150	2455	6	22°610	24°703	2607	6	9°942	10°335	2681	12	17°556	16°805
2382*	27	22°805	17°326	2456	8	23°695	24°212	2608	6	17°071	10°189	2682	13	19°826	16°473
2383	5	23°774	17°724	2457*	22	23°748	24°730	2609	6	18°489	10°175	2683	5	20°809	16°480
2384	6	24°308	17°758	2458	18	0°697	25°400	2610	8	18°794	10°731	2684*	45	25°298	16°439
2385	5	1°686	18°134	2459*	16	3°808	25°434	2611	19	19°128	10°363	2685	9	0°164	17°505
2386	7	1°777	18°260	2460	6	6°328	25°949	2612*	36	22°655	10°305	2686	6	6°830	17°818
2387	15	6°611	18°505	2461	6	6°835	25°014	2613	6	0°374	11°929	2687*	14	8°405	17°724
2388*	31	9°373	18°403	2462	6	13°945	25°432	2614	17	0°573	11°928	2688	10	9°671	17°347
2389*	15	10°955	18°103	2463	16	15°865	25°090	2615	15	1°087	11°509	2689	11	12°483	17°237
2390	5	15°090	18°215	2464	9	23°795	25°224	2616	10	1°341	11°681	2690*	32	15°086	17°307
2391	17	17°457	18°428	2465	12	25°449	25°934	2617	13	4°076	11°917	2691	28	16°094	17°716
2392	6	18°264	18°199					2618	10	4°401	11°135	2692	5	16°240	17°353
2393	13	21°704	18°019					2619	8	5°959	11°145	2693*	45	16°327	17°971
2394	11	25°637	18°705					2620	14	8°099	11°236	2694	8	19°489	17°871
2395	6	0°867	19°467					2621	7	9°568	11°380	2695	12	1°509	18°425
2396	6	5°295	19°035					2622	16	14°976	11°531	2696	6	2°265	18°107
2397	7	9°774	19°084					2623	6	16°867	11°800	2697	5	2°275	18°181
2398	10	9°795	19°725					2624	6	17°825	11°832	2698	28	3°586	18°308
2399	10	11°614	19°094					2625	8	18°090	11°770	2699	16	7°895	18°839
2400*	16	11°791	19°360					2626	8	22°612	11°836	2700	6	8°055	18°788
2401	8	18°006	19°154					2627	6	25°415	11°273	2701	5	10°174	18°178
2402	6	18°424	19°876					2628	5	1°935	12°907	2702	5	13°907	18°527
2403	6	18°480	19°806					2629*	64	3°337	12°507	2703	6	16°259	18°389
2404	6	20°362	19°024					2630*	17	3°459	12°957	2704	6	17°687	18°453

R. A. 1^h 12^m

Plate 1288; 1899 Jan. 27.

Provisional Constants.

A	B	C
-00031	+00241	-6519

D	E	F
-00219	-00036	-5236

Mag. = 15.1 - 1.02 $\sqrt{d}$

No.	d	x	y
2501	16	2°847	0°065
2502	16	6°556	0°705
2503	12	6°615	0°474
2504	5	10°514	0°245
2505	8	15°940	0°774
2506	12	16°206	0°245
2507	10	16°496	0°447
2508	22	1°181	1°186
2509*	36	1°455	1°455
2510*	28	2°402	1°673
2511	6	4°077	1°992
2512	6	5°069	1°850
2513	26	5°284	1°722
2514	5	7°426	1°046
2515	5	8°241	1°317
2516	26	8°955	1°205
2517	8	11°052	1°873

2705	6	17.825	18.817	2779*	44	14.694	25.116	2850	13	6.197	6.735	2924*	27	8.036	16.898	2998	8	8.166	24.576
2706	5	20.275	18.065	2780	5	19.467	25.518	2851	11	7.559	6.230	2925	10	20.891	16.025	2999	11	8.370	24.537
2707	12	24.975	18.774					2852	10	12.857	6.305	2926	9	21.146	16.180	3000	10	14.836	24.947
2708	8	12.086	19.665					2853	16	14.219	6.226	2927	13	23.929	16.037	3001*	40	22.045	24.839
2709	5	12.242	19.816					2854	9	14.250	6.732	2928	15	24.126	16.550	3002	10	15.111	25.930
2710	10	12.795	19.380					2855	12	14.505	6.465	2929	10	6.377	17.495	3003	10	15.820	25.880
2711	10	14.316	19.129					2856	11	15.224	6.887	2930	10	9.777	17.366	3004	10	19.641	25.356
2712	14	16.175	19.690					2857	9	18.038	6.261	2931	11	13.083	17.146	3005*	42	20.386	25.261
2713	6	18.098	19.686					2858	17	20.640	6.994	2932	9	23.184	17.294	3006	8	21.525	25.307
2714	14	19.755	19.095	R. A. 1 ^h 21 ^m				2859	10	23.634	6.238	2933*	22	5.624	18.414	R. A. 1 ^h 30 ^m			
2715	12	21.895	19.014	Plate 556; 1894 Nov. 16.				2860	23	25.941	6.346	2934	14	7.657	18.390				
2716	11	23.354	19.075	Provisional Constants.				2861	11	1.428	7.699	2935	11	9.309	18.867	Plate 557; 1894 Nov. 16.			
2717	5	0.526	20.695	A B C				2862	11	2.616	7.934	2936	11	9.624	18.627				
2718	7	2.275	20.187	+00754 +00174 -4570				2863	15	3.564	7.106	2937	8	11.791	18.474	Provisional Constants.			
2719	32	3.798	20.722	D E F				2864	11	4.794	7.032	2938	12	13.317	18.793				
2720	7	6.075	20.367	-00148 +00750 -2566				2865	10	7.155	7.576	2939	12	16.279	18.631	A B C			
2721	16	6.219	20.876	Mag. = 14.1 - 1.02 $\sqrt{d}$				2866*	23	10.732	7.556	2940	11	19.552	18.630				
2722	6	6.456	20.085					2867	9	11.404	7.683	2941	13	19.608	18.646	D E F			
2723	5	10.919	20.679					2868*	20	14.821	7.725	2942	8	19.645	18.754				
2724*	40	17.073	20.737					2869	12	17.223	7.363	2943	18	19.724	18.925	+00051 +00739 -2683			
2725	8	19.005	20.853					2870	10	18.447	7.807	2944	31	22.491	18.022				
2726	8	20.197	20.259					2871	26	25.873	7.361	2945	11	1.445	19.236	Mag. = 13.8 - 1.02 $\sqrt{d}$			
2727	8	25.883	20.145					2872	11	2.307	8.227	2946	10	3.373	19.286				
2728	6	3.234	21.401					2873	19	2.854	8.149	2947	9	3.830	19.326	No. d x y			
2729	5	4.945	21.257					2874	10	5.356	8.110	2948	8	7.088	19.733				
2730	10	7.636	21.604	No.	d	x	y	2875	8	6.516	8.943	2949	14	7.807	19.529	3101 12 6.977 0.755			
2731	6	10.055	21.702	2801	8	10.110	0.847	2876	10	17.440	8.434	2950	14	8.644	19.336				
2732	14	10.085	21.359	2802*	20	10.603	0.991	2877	12	20.319	9.075	2951	10	9.504	19.216	3103 9 12.599 0.122			
2733	7	10.675	21.116	2803	10	12.709	0.879	2878	11	21.207	9.681	2952	8	10.087	19.229				
2734	5	13.300	21.618	2804*	20	13.635	0.579	2879	13	2.885	10.846	2953	10	12.478	19.795	3105* 12 5.780 1.922			
2735	5	13.622	21.823	2805*	24	14.562	0.584	2880	12	3.221	10.787	2954	13	15.105	19.914				
2736	15	15.785	21.446	2806	14	16.860	0.123	2881	9	7.528	10.391	2955*	23	17.227	19.551	3107 12 13.955 1.670			
2737	5	19.766	21.458	2807*	30	6.928	1.461	2882	19	8.443	10.428	2956	20	20.979	19.974				
2738	6	20.295	21.582	2808	11	7.023	1.456	2883	11	13.227	10.108	2957	10	2.388	20.604	3109 10 18.211 1.830			
2739	20	25.525	21.169	2809	10	9.702	1.301	2884	16	13.957	10.639	2958*	36	2.763	20.946				
2740	11	3.108	22.197	2810	11	10.593	1.913	2885	12	19.257	10.797	2959	15	3.195	20.435	3111 10 7.194 2.962			
2741	6	5.243	22.378	2811*	29	13.005	1.106	2886	18	25.945	10.462	2960	10	4.568	20.625				
2742	5	13.255	22.446	2812	12	17.282	1.022	2887	12	8.020	11.216	2961	10	8.555	20.419	3113 10 10.992 2.961			
2743	6	15.265	22.926	2813	10	19.987	1.055	2888	11	12.515	11.894	2962	9	14.452	20.943				
2744	14	21.257	22.618	2814	10	20.903	1.737	2889	9	20.403	11.313	2963	11	17.643	20.640	3115 11 6.220 3.900			
2745	10	24.809	22.315	2815*	41	4.120	2.298	2890	12	0.954	12.745	2964	10	18.200	20.583				
2746	5	7.228	23.133	2816	10	8.889	2.155	2891	11	1.544	12.955	2965	12	20.742	20.773	3117 6 14.579 3.818			
2747	6	8.702	23.193	2817	14	9.492	2.430	2892*	25	8.343	12.213	2966	13	23.116	20.144				
2748	13	10.745	23.994	2818	9	9.676	2.205	2893	11	8.640	12.500	2967	19	2.050	21.642	3119* 14 17.115 3.112			
2749	8	15.812	23.396	2819*	18	11.118	2.818	2894	16	9.954	12.294	2968	10	6.024	21.088				
2750	5	16.167	23.146	2820	13	11.688	2.520	2895	8	12.787	12.166	2969	10	7.755	21.936	3121 12 18.761 3.691			
2751	6	18.495	23.629	2821*	13	12.896	2.782	2896	9	16.739	12.914	2970	10	7.871	21.945				
2752	6	20.218	23.014	2822*	15	14.390	2.320	2897	40	22.198	12.579	2971	10	8.520	21.257	3123* 34 22.339 3.802			
2753	6	21.056	23.436	2823	16	22.901	2.461	2898*	9	22.392	12.420	2972	11	9.677	21.888				
2754	7	21.534	23.680	2824	28	0.277	3.334	2899	10	3.100	13.843	2973	12	10.159	21.859	3125 13 5.893 4.075			
2755	5	23.768	23.866	2825	11	3.414	3.207	2900	12	3.725	13.147	2974	11	10.207	21.387				
2756	6	4.578	24.498	2826	14	9.192	3.798	2901	14	6.842	13.328	2975	9	17.100	21.055	3127 6 13.102 4.855			
2757	6	5.094	24.987	2827	10	16.839	3.289	2902*	40	9.013	13.437	2976	9	17.883	21.399				
2758	21	6.616	24.705	2828*	25	22.142	3.025	2903*	22	9.927	13.076	2977	10	19.202	21.680	3129 12 1.515 5.614			
2759	5	7.812	24.345	2829*	16	23.588	3.967	2904	9	11.286	13.696	2978	14	22.801	21.105				
2760	6	8.127	24.636	2830	10	5.306	4.238	2905*	20	13.233	13.248	2979	22	23.458	21.299	3131 9 6.973 5.571			
2761	9	11.902	24.550	2831	9	7.231	4.312	2906	10	20.354	13.720	2980	12	1.352	22.806				
2762	5	12.129	24.393	2832	14	7.884	4.939	2907	11	22.615	13.043	2981*	20	5.528	22.364	3133* 11 16.765 5.755			
2763	6	12.693	24.766	2833	8	10.079	4.775	2908	13	23.793	13.878	2982	10	9.176	22.678				
2764	12	13.426	24.586	2834	8	10.508	4.479	2909	9	2.262	14.024	2983	10	12.845	22.858	3135 13 18.829 5.346			
2765*	46	13.556	24.033	2835	9	11.773	4.942	2910	10	3.516	14.324	2984	10	13.297	22.776				
2766	6	15.324	24.675	2836	11	11.886	4.576	2911	10	5.157	14.827	2985	18	19.505	22.395	3137 8 21.624 5.645			
2767	34	15.931	24.213	2837	12	17.598	4.924	2912	9	18.173	14.642	2986	9	20.342	22.861				
2768	6	16.415	24.377	2838	10	18.181	4.623	2913	9	21.238	14.359	2987	11	2.584	23.127	3139 10 23.515 5.958			
2769	5	16.493	24.055	2839	9	19.226	4.363	2914	7	4.									

3143	10	4°529	6°864	3217	11	19°595	14°403	3291	21	21°981	22°611	3428	9	24°120	4°319	3502	10	13°475	11°829
3144*	19	7°688	6°978	3218	9	21°761	14°044	3292*	55	1°197	23°759	3429	19	0°290	5°715	3503	10	15°367	11°109
3145	10	10°281	6°220	3219*	28	25°033	14°030	3293*	15	6°378	23°339	3430	10	1°022	5°561	3504	8	15°450	11°900
3146	10	11°319	6°030	3220	16	0°462	15°849	3294	16	11°786	23°459	3431	20	2°823	5°436	3505	10	17°928	11°037
3147	11	11°688	6°286	3221	8	6°781	15°812	3295	11	14°770	23°159	3432	12	5°525	5°576	3506	8	25°600	11°440
3148	10	14°561	6°594	3222	9	9°191	15°165	3296	12	15°715	23°872	3433	9	6°720	5°961	3507	10	1°835	12°071
3149	11	15°122	6°590	3223	7	11°241	15°331	3297	11	15°757	23°226	3434	11	9°089	5°540	3508*	30	3°628	12°603
3150	14	25°101	6°957	3224	7	13°774	15°910	3298	8	19°205	23°540	3435	9	20°636	5°170	3509	12	4°761	12°841
3151	12	25°838	6°100	3225	8	14°086	15°609	3299	12	24°857	23°767	3436	10	20°804	5°737	3510	9	6°038	12°630
3152	21	1°653	7°366	3226	12	16°975	15°483	3300	12	8°657	24°799	3437	10	21°709	5°214	3511*	40	13°357	12°327
3153	10	3°456	7°575	3227	9	18°542	15°500	3301	6	11°892	24°522	3438*	25	21°758	5°859	3512	10	16°668	12°936
3154	9	7°380	7°181	3228	9	19°590	15°150	3302	6	15°050	24°473	3439	20	21°921	5°290	3513	8	17°608	12°681
3155	10	8°148	7°435	3229	14	19°730	15°487	3303*	26	15°251	24°025	3440	12	1°195	6°965	3514	20	20°915	12°671
3156	11	14°078	7°727	3230	12	19°816	15°825	3304	11	15°304	24°173	3441	15	2°574	6°879	3515*	28	20°948	12°736
3157	10	14°697	7°920	3231	6	23°936	15°804	3305	9	16°912	24°507	3442*	30	3°132	6°598	3516	11	22°189	12°495
3158	10	15°645	7°761	3232	21	0°051	16°583	3306	13	19°070	24°902	3443	9	5°349	6°770	3517	10	22°791	12°366
3159	10	15°904	7°571	3233	10	2°475	16°836	3307	10	5°138	25°546	3444	20	6°989	6°681	3518	12	22°935	12°902
3160	10	19°811	7°382	3234	10	2°697	16°132	3308	6	8°743	25°379	3445	9	8°450	6°363	3519	7	10°249	13°309
3161	9	23°400	7°311	3235	10	3°716	16°401	3309	10	10°457	25°845	3446	14	9°635	6°489	3520	12	11°883	13°549
3162	18	25°159	7°082	3236	7	5°454	16°555	3310*	20	10°465	25°857	3447	10	14°530	6°360	3521	9	12°827	13°255
3163	11	4°915	8°865	3237	6	8°092	16°634	3311	9	18°846	25°432	3448	9	15°201	6°168	3522	11	18°684	13°233
3164	8	5°141	8°654	3238	6	11°383	16°326	3312*	30	19°738	25°741	3449*	20	16°882	6°800	3523	10	22°808	13°269
3165	8	6°464	8°783	3239	12	16°955	16°400	3313	25	22°001	25°556	3450	18	1°258	7°090	3524	9	24°837	13°213
3166	7	7°082	8°646	3240	7	20°115	16°197	3314	16	22°481	25°902	3451*	18	9°166	7°488	3525*	30	1°260	14°041
3167*	12	18°313	8°645	3241*	22	20°150	16°935					3452	12	10°100	7°450	3526	18	18°869	14°076
3168	9	18°585	8°060	3242	7	12°394	17°800					3453	8	10°154	7°409	3527	8	5°711	15°558
3169	7	18°896	8°527	3243	8	13°591	17°153					3454	9	10°496	7°126	3528	10	7°127	15°781
3170	6	21°377	8°945	3244	20	23°510	17°460					3455	9	11°220	7°137	3529	10	8°151	15°467
3171*	35	23°087	8°030	3245	10	5°583	18°604					3456	10	14°162	7°173	3530	10	8°278	15°221
3172	12	2°157	9°032	3246	12	10°174	18°966					3457	8	15°656	7°060	3531	8	10°514	15°200
3173	12	2°596	9°445	3247	10	10°175	18°614					3458	10	19°217	7°456	3532	9	12°549	15°711
3174	6	3°389	9°155	3248	10	10°825	18°750					3459*	18	21°225	7°680	3533*	25	14°017	15°691
3175	10	9°438	9°225	3249	10	13°475	18°225					3460	8	22°166	7°251	3534	9	17°180	15°795
3176*	38	12°682	9°900	3250	10	16°308	18°897					3461	19	4°060	8°150	3535	10	21°699	15°061
3177	8	13°938	9°019	3251	6	17°255	18°058					3462*	31	5°316	8°290	3536	19	25°709	15°362
3178	11	21°301	9°893	3252	10	20°763	18°855					3463	9	9°920	8°905	3537*	31	25°764	15°300
3179	18	1°775	10°465	3253	9	21°428	18°656					3464	9	10°737	8°955	3538	16	3°307	16°629
3180	7	3°121	10°065	3254	8	21°673	18°690					3465	10	20°600	8°541	3539	10	3°599	16°191
3181	9	23°446	10°182	3255	10	22°479	18°782					3466	9	21°820	8°987	3540	10	4°007	16°851
3182*	29	24°351	10°716	3256	9	23°394	18°601					3467	11	25°111	8°808	3541	19	6°205	16°760
3183*	21	2°250	11°370	3257	10	6°434	19°701					3468	17	3°355	9°215	3542	11	7°096	16°315
3184	10	11°676	11°975	3258*	29	11°044	19°955					3469	9	10°116	9°129	3543	10	8°273	16°880
3185	19	15°019	11°594	3259*	17	12°641	19°483					3470	8	11°538	9°950	3544	21	13°320	16°070
3186	18	25°848	11°020	3260	7	16°898	19°725					3471*	20	14°244	9°680	3545	19	17°983	16°960
3187	13	4°801	12°134	3261	16	17°717	19°499					3472	10	17°083	9°617	3546	12	22°640	16°115
3188	10	7°645	12°726	3262	9	23°706	19°549					3473	12	19°634	9°035	3547	11	24°873	16°315
3189	9	9°645	12°260	3263	8	4°974	20°034					3474	8	19°966	9°600	3548	10	7°620	17°686
3190	8	9°835	12°760	3264	12	10°443	20°700					3475	9	20°281	9°324	3549	8	12°710	17°585
3191*	17	11°631	12°000	3265	10	10°480	20°073					3476	13	20°472	9°287	3550	10	16°858	17°476
3192	10	17°721	12°970	3266	11	10°794	20°483					3477	9	20°779	9°100	3551	11	18°495	17°806
3193	12	25°646	12°071	3267	10	11°271	20°864					3478	10	20°781	9°105	3552	10	18°938	17°877
3194	8	2°602	13°023	3268	10	12°920	20°559					3479	11	22°886	9°535	3553	9	19°271	17°956
3195	5	3°809	13°177	3269	10	13°649	20°750					3480*	28	24°825	9°853	3554	9	22°035	17°359
3196	5	4°769	13°602	3270	17	13°727	20°181					3481*	35	0°515	10°739	3555*	18	23°977	17°711
3197	6	5°969	13°061	3271	11	24°609	20°126					3482	8	3°886	10°586	3556	19	25°006	17°430
3198	6	6°057	13°862	3272	14	25°356	20°052					3483	9	4°638	10°958	3557	10	2°856	18°081
3199	10	8°717	13°214	3273	20	5°434	21°419					3484	12	10°816	10°915	3558	18	3°575	18°445
3200	12	9°606	13°476	3274*	29	6°491	21°950					3485	8	11°378	10°330	3559	10	6°056	18°477
3201	14	9°766	13°421	3275*	21	10°448	21°624					3486	11	11°666	10°440	3560	8	11°446	18°844
3202	6	12°763	13°066	3276	12	13°620	21°715					3487	8	12°745	10°548	3561*	14	12°351	18°267
3203	10	14°123	13°368	3277	16	14°067	21°350					3488*	19	15°236	10°290	3562*	16	13°109	18°260
3204	6	17°282	13°778	3278	8	16°276	21°217					3489	10	17°188	10°885	3563	10	20°101	18°658
3205	6	17°418	13°830	3279	10	16°346	21°253					3490	13	17°784	10°915	3564	11	23°618	18°476
3206	12	18°151	13°334	3280	10	18°236	21°274					3491	19	22°472	10°910	3565	12	25°449	18°867
3207	11	22°773	13°887	3281	12	22°112	21°040					3492	10	23°915	10°120	3566	10	0°038	19°583
3208	7	24°297	13°795	3282	11	25°453	21°441					3493	14	25°305	10°081	3567	10	3°735	19°935
3209	6	0°882	14°186	3283	12	3°349	22°705					3494	18	25°495	10°476	3568	7	3°829	19°975
3210	6	4°879	14°374	3284	6	3°542	22°255					3495	13	2°017	11°015	3569*	33	5°453	19°665
3211	6	7°177	14°294	3285	10	4°790	22°310					3496	12	3°299	11°886	3570	10	8°435	19°588
3212	10	7°594	14°895	3286*	17														

3576	7	4°9'15	20°749	R. A. 1^h 48^m Plate 568; 1894 Nov. 19. Provisional Constants. A B C +00782 +00230 -6152 D E F -00230 +00774 -2318 Mag. = 14.3 - 1.02 √d	3577	12	20°004	7°438	3831	24	0°802	17°426	3905	10	19°856	24°937
3577	10	6°091	20°791		3578	12	20°588	7°519	3832*	22	4°823	17°484	3906	22	21°660	24°809
3578	8	7°816	20°645		3579	11	23°599	7°015	3833	10	5°239	17°355	3907	10	24°847	24°628
3579	20	8°002	20°138		3760	11	23°743	7°862	3834	9	10°708	17°115	3908	13	25°783	24°955
3580	16	11°612	20°207		3761	12	0°729	8°805	3835	19	13°597	17°882	3909	22	7°341	25°494
3581	11	13°580	20°306		3762	12	3°991	8°073	3836*	22	18°211	17°094	3910	10	11°025	25°030
3582	9	14°608	20°617		3763	10	7°427	8°509	3837	9	21°397	17°218	3911	8	17°736	25°002
3583	10	14°644	20°168		3764	7	9°614	8°652	3838	10	22°773	17°235	3912	12	21°543	25°166
3584*	24	16°395	20°886		3765	12	10°410	8°406	3839	18	1°277	18°854	R. A. 1^h 57^m Plate 559; 1894 Nov. 16. Provisional Constants. A B C +00743 +00055 -3019 D E F -00041 +00763 -2212 Mag. = 14.0 - 1.02 √d			
3585	10	19°152	20°592		3766	9	11°738	8°476	3840*	28	3°438	18°479				
3586	19	20°553	20°498		3767	10	12°368	8°876	3841*	32	4°279	18°238				
3587	9	21°595	20°733		3768	12	13°289	8°004	3842	9	6°311	18°364				
3588	8	24°295	20°234		3769	9	22°256	8°387	3843	9	7°027	18°779				
3589	12	25°768	20°206		3770	10	22°697	8°594	3844	11	7°169	18°059				
3590	10	1°822	21°445		3771*	35	0°465	9°854	3845	10	7°880	18°515				
3591	13	8°200	21°721		3772	10	2°381	9°687	3846	10	8°722	18°586				
3592	8	9°827	21°478		3773	7	4°335	9°681	3847	9	11°410	18°377				
3593	8	10°903	21°246		3774	20	6°446	9°221	3848	12	12°469	18°367				
3594	9	11°154	21°009	3775	12	6°837	9°417	3849	10	12°871	18°355					
3595*	21	11°245	21°089	3776	8	7°415	9°257	3850	19	19°006	18°484					
3596	8	13°349	21°590	3777	18	14°308	9°113	3851	10	21°785	18°866					
3597	9	14°541	21°310	3778	9	17°186	9°063	3852*	20	22°975	18°562					
3598	10	16°762	21°290	3779*	28	25°342	9°915	3853*	24	23°853	18°137					
3599	19	17°070	21°094	3780	14	0°949	10°073	3854	12	25°644	18°073					
3600	9	17°640	21°091	3781	19	1°144	10°464	3855	18	25°787	18°097					
3601	9	18°405	21°580	3782	10	7°708	10°429	3856	15	2°994	19°262					
3602	12	19°669	21°110	3783	11	9°216	10°682	3857	8	5°555	19°894					
3603	9	20°839	21°695	3784	8	14°051	10°485	3858	9	9°165	19°778					
3604	10	24°895	21°848	3785	9	14°545	10°521	3859	10	10°448	19°270					
3605	8	7°353	22°495	3786	8	17°825	10°427	3860	8	13°410	19°942					
3606	9	7°710	22°941	3787	10	18°830	10°700	3861*	29	13°424	19°698					
3607	19	10°152	22°678	3788	18	20°025	10°765	3862	9	14°669	19°050					
3608	8	11°288	22°930	3789	17	21°589	10°319	3863	17	16°295	19°584					
3609	11	24°624	22°587	3790	9	12°891	11°147	3864	9	18°118	19°660					
3610	10	1°268	23°781	3791	10	14°826	11°748	3865	8	20°418	19°923					
3611	9	7°188	23°137	3792*	27	17°761	11°179	3866	17	22°602	19°630					
3612	10	9°390	23°500	3793	11	20°934	11°892	3867	11	1°623	20°189					
3613	10	12°830	23°247	3794	10	2°193	12°415	3868	9	10°390	20°049					
3614	14	15°366	23°437	3795	9	4°347	12°312	3869	10	14°315	20°416					
3615	8	16°499	23°056	3796	12	10°572	12°906	3870*	32	15°346	20°822					
3616	10	18°311	23°040	3797	16	16°404	12°861	3871	8	16°430	20°403					
3617	10	18°491	23°311	3798	10	18°291	12°303	3872	12	17°360	20°572					
3618	9	22°770	23°191	3799	18	19°173	12°459	3873	10	23°603	20°089					
3619	13	5°646	24°377	3800	12	5°009	13°668	3874	20	23°792	20°629					
3620*	45	6°053	24°979	3801	10	8°135	13°083	3875	12	0°785	21°847					
3621	11	7°400	24°420	3802	10	14°415	13°641	3876	11	6°691	21°445					
3622	11	7°641	24°700	3803	9	20°722	13°629	3877	10	9°068	21°343					
3623*	30	8°735	24°468	3804	17	21°872	13°445	3878	12	12°880	21°816					
3624	12	13°354	24°007	3805*	60	24°037	13°260	3879	10	16°063	21°266					
3625	9	16°820	24°302	3806	9	2°993	14°713	3880	9	19°715	21°805					
3626	11	19°355	24°087	3807	9	3°776	14°493	3881	20	19°733	21°946					
3627	11	22°472	24°131	3808	9	7°983	14°229	3882	9	21°339	21°218					
3628*	32	22°842	24°427	3809	11	9°107	14°404	3883	14	21°679	21°985					
3629	11	23°921	24°294	3810	16	17°575	14°570	3884	14	24°812	21°125					
3630	9	24°445	24°643	3811	10	19°131	14°674	3885	9	0°526	22°596					
3631	12	4°833	25°685	3812	13	20°496	14°941	3886	10	3°936	22°936					
3632	10	6°488	25°408	3813	20	1°461	15°345	3887	12	7°036	22°632					
3633	8	14°182	25°379	3814*	35	1°519	15°282	3888	12	9°036	22°414					
3634*	30	17°603	25°574	3815	12	2°006	15°614	3889	9	9°835	22°702					
3635	10	19°509	25°835	3816	10	4°529	15°309	3890	11	14°583	22°491					
				3817	7	10°339	15°602	3891	12	3°274	23°971					
				3818*	18	14°465	15°851	3892	11	6°091	23°356					
				3819	9	21°306	15°516	3893	10	8°266	23°814					
				3820	12	0°648	16°315	3894	9	11°835	23°048					
				3821*	40	11°163	16°785	3895	8	14°142	23°240					
				3822	8	13°901	16°499	3896	11	24°456	23°246					
				3823	10	14°598	16°152	3897	60	25°707	23°676					
				3824*	20	15°725	16°784	3898*	46	3°153	24°618					
				3825*	42	16°322	16°553	3899	15	6°918	24°257					
				3826*	11	16°824	16°253	3900	10	8°185	24°985					
				3827	10	18°254	16°197	3901	11	9°756	24°323					
				3828*	27	21°675	16°570	3902	10	17°797	24°998					
				3829	8	22°234	16°716	3903	30	19°423	24°321					
				3830	10	22°726	16°941	3904	8	19°759	24°218					

No.	d	x	y
4001	20	4°400	0°212
4002	12	7°013	0°014
4003	10	9°668	0°394
4004	10	11°045	0°934
4005	10	11°770	0°292
4006	11	11°859	0°898
4007	8	12°338	0°335
4008	9	14°191	0°691
4009*	30	15°057	0°790
4010	10	20°950	0°990
4011	9	22°043	0°279
4012	11	22°128	0°511
4013	20	22°300	0°726
4014*	20	24°581	0°907
4015	11	5°812	1°578
4016*	20	6°668	1°165
4017	8	9°308	1°126
4018*	10	9°670	1°183
4019	13	2°279	2°747
4020*	30	4°544	2°552
4021	11	8°700	2°228
4022	8	8°901	2°960
4023	8	10°394	2°033
4024*	21	12°390	2°176
4025	10	12°680	2°945
4026	9	15°494	2°915
4027	10	19°111	2°320
4028	8	21°802	2°278
4029	9	3°581	3°747
4030	12	5°536	3°509
4031	12	6°875	3°750
4032	12	7°489	3°032
4033	9	8°841	3°912
4034	8	9°808	3°214
4035	14	14°135	3°805
4036	15	14°136	3°291
4037	8	16°798	3°654
4038	12	22°391	3°462
4039	24	0°073	4°906
4040	20	4°615	4°549
4041*	31	6°935	4°429
4042	9	11°565	4°839
4043	9	11°897	4°908

4044	9	12°010	4°382	4118	9	21°792	11°556	4192*	29	0°207	18°210	4266	10	16°285	23°630	4331	6	19°162	3°585
4045	8	12°979	4°402	4119	9	22°853	11°391	4193	19	2°144	18°139	4267	9	20°215	23°559	4332	5	19°552	3°623
4046	8	13°056	4°768	4120	10	5°101	12°367	4194	9	10°141	18°520	4268	10	21°710	23°338	4333	6	22°399	3°813
4047	10	14°660	4°058	4121	11	5°276	12°315	4195	9	12°235	18°453	4269	15	23°887	23°177	4334	7	23°571	3°474
4048	9	16°027	4°289	4122	10	5°748	12°992	4196	10	15°401	18°281	4270	28	25°526	23°101	4335	5	24°321	3°914
4049	8	17°921	4°357	4123	9	11°013	12°778	4197	20	18°395	18°776	4271	12	1°312	24°685	4336	7	7°723	4°631
4050	9	21°366	4°823	4124	7	11°277	12°739	4198	20	21°632	18°310	4272	8	2°249	24°995	4337	5	8°357	4°144
4051*	30	7°067	5°680	4125	8	13°551	12°345	4199	9	21°796	18°661	4273	25	3°850	24°378	4338	5	8°399	4°373
4052	8	7°198	5°931	4126	8	19°713	12°520	4200	8	22°236	18°111	4274	11	6°428	24°727	4339	9	9°856	4°366
4053	9	12°056	5°790	4127	8	22°906	12°391	4201	9	22°516	18°216	4275	9	10°949	24°354	4340	6	10°355	4°365
4054	21	13°528	5°871	4128	10	24°215	12°303	4202	9	4°927	19°727	4276	10	11°620	24°841	4341	6	18°868	4°237
4055	10	21°069	5°286	4129	9	24°769	12°960	4203	10	12°395	19°411	4277	8	14°314	24°477	4342	17	19°090	4°066
4056	9	21°979	5°090	4130	12	24°772	12°856	4204	9	15°877	19°681	4278	10	19°702	24°908	4343	7	21°283	4°584
4057*	29	23°218	5°124	4131	9	25°948	12°684	4205	8	20°538	19°361	4279	14	21°743	24°186	4344	21	25°075	4°966
4058	9	24°936	5°746	4132*	62	0°308	13°330	4206	16	21°166	19°580	4280	10	23°875	24°792	4345	6	25°436	4°747
4059	9	25°013	5°168	4133	11	7°559	13°401	4207	8	23°860	19°445	4281	22	2°790	25°566	4346	6	0°785	5°441
4060	11	3°641	6°292	4134	8	10°915	13°350	4208	11	24°862	19°018	4282	12	4°742	25°473	4347	5	4°790	5°537
4061	20	7°250	6°053	4135	12	14°416	13°640	4209	30	0°188	20°705	4283*	30	8°053	25°743	4348*	33	5°633	5°438
4062	11	7°700	6°415	4136	9	17°380	13°455	4210	9	5°330	20°278	4284	9	13°563	25°325	4349	5	7°244	5°456
4063	8	15°307	6°242	4137	8	17°550	13°640	4211	10	12°465	20°405	4285	8	14°226	25°258	4350	16	7°640	5°795
4064	11	24°475	6°563	4138*	21	17°910	13°120	4212	8	12°570	20°233	4286	9	20°895	25°248	4351	10	8°326	5°648
4065	12	1°853	7°868	4139	8	19°915	13°372	4213	8	12°802	20°094					4352	17	9°575	5°786
4066	9	5°615	7°163	4140	10	20°800	13°429	4214	9	14°582	20°868					4353	6	9°695	5°404
4067	9	6°409	7°095	4141	8	22°120	13°846	4215	10	16°043	20°963					4354	6	13°462	5°345
4068	9	8°530	7°665	4142	8	23°846	13°975	4216	9	17°095	20°566					4355	8	14°766	5°320
4069	8	10°680	7°263	4143	11	24°347	13°664	4217	8	17°105	20°601					4356	28	24°165	5°227
4070	9	11°205	7°730	4144	10	5°232	14°758	4218*	24	18°191	20°074					4357	8	0°285	6°834
4071	8	12°882	7°883	4145	9	5°857	14°798	4219	8	18°705	20°183					4358	5	3°715	6°885
4072	8	19°722	7°824	4146	9	8°400	14°573	4220*	30	19°526	20°444					4359	7	5°480	6°425
4073	9	21°645	7°088	4147	8	13°058	14°402	4221	9	19°585	20°497					4360	7	6°206	6°647
4074	10	5°879	8°902	4148*	8	16°121	14°520	4222	10	19°741	20°507					4361	5	8°246	6°525
4075	8	6°716	8°440	4149*	20	17°051	14°130	4223	11	22°545	20°109					4362	7	9°323	6°170
4076	8	10°300	8°961	4150	9	19°656	14°358	4224	11	23°652	20°865					4363	6	13°168	6°825
4077*	26	12°579	8°355	4151	10	23°320	14°775	4225	11	1°216	21°184					4364	6	13°313	6°432
4078	8	16°630	8°495	4152	8	24°306	14°632	4226	10	4°111	21°149					4365	11	14°207	6°704
4079	10	16°671	8°357	4153	10	24°471	14°570	4227	19	5°282	21°899					4366	6	14°253	6°489
4080	9	16°748	8°275	4154	10	3°710	15°200	4228	9	5°650	21°503					4367	12	14°817	6°047
4081	8	17°093	8°758	4155	9	3°943	15°603	4229	11	6°911	21°666					4368	6	15°157	6°690
4082	12	20°112	8°259	4156	7	4°329	15°204	4230	10	6°981	21°355					4369	8	15°667	6°684
4083*	20	21°335	8°336	4157	8	8°721	15°906	4231	9	9°706	21°721					4370	12	15°995	6°656
4084	11	21°630	8°286	4158	19	12°441	15°604	4232	9	10°042	21°510					4371	8	16°768	6°036
4085	9	21°730	8°389	4159	12	13°958	15°398	4233	10	10°318	21°083					4372	14	16°863	6°435
4086	15	25°165	8°394	4160*	19	20°449	15°552	4234	9	12°551	21°647					4373*	32	17°506	6°673
4087	18	25°815	8°294	4161	9	20°887	15°640	4235*	20	13°100	21°400					4374*	19	18°490	6°375
4088*	22	1°558	9°904	4162	10	22°838	15°639	4236	10	15°633	21°845					4375*	25	20°018	6°720
4089	10	6°586	9°156	4163	13	23°405	15°050	4237	8	15°690	21°780					4376	10	20°751	6°752
4090	17	6°647	9°520	4164	10	25°309	15°875	4238*	20	15°728	21°205					4377	11	21°697	6°710
4091	8	8°385	9°287	4165	9	25°494	15°220	4239	8	15°793	21°811					4378	6	22°844	6°194
4092	11	8°526	9°600	4166	9	9°817	16°408	4240	16	21°042	21°251					4379	6	23°255	6°905
4093	19	9°285	9°543	4167	11	9°966	16°365	4241	8	21°573	21°377					4380	10	23°922	6°978
4094	9	11°369	9°660	4168*	32	12°976	16°547	4242	10	22°287	21°218					4381	11	25°199	6°905
4095	8	11°446	9°786	4169	8	15°181	16°106	4243	16	23°132	21°432					4382	6	7°678	7°418
4096	9	12°747	9°061	4170*	18	15°824	16°587	4244	19	2°858	22°105					4383	5	8°976	7°617
4097	9	17°103	9°665	4171	10	15°920	16°028	4245	11	6°080	22°394					4384	5	10°790	7°552
4098	10	18°201	9°004	4172	9	17°033	16°440	4246	10	7°260	22°585					4385	12	12°871	7°823
4099	10	18°247	9°350	4173	8	18°347	16°235	4247*	32	8°176	22°000					4386*	28	15°835	7°556
4100	8	19°843	9°696	4174*	18	18°950	16°110	4248	9	9°255	22°237					4387	8	21°023	7°765
4101	10	24°558	9°415	4175	8	19°209	16°215	4249	8	9°777	22°583					4388	6	1°023	8°636
4102	10	25°384	9°174	4176	9	20°307	16°059	4250	8	12°734	22°360					4389	12	1°665	8°517
4103	9	6°644	10°175	4177	12	21°067	16°330	4251	12	13°943	22°817					4390	7	10°096	8°716
4104	8	14°401	10°591	4178*	16	21°611	16°026	4252	11	18°671	22°327					4391	10	11°104	8°154
4105	9	16°858	10°351	4179	10	22°043	16°668	4253	9	18°756	22°065					4392	7	13°128	8°205
4106	8	18°424	10°955	4180*	31	2°645	17°471	4254	12	20°151	22°785					4393	8	16°442	8°915
4107	12	18°770	10°249	4181	8	3°754	17°060	4255	10	21°059	22°761					4394	5	19°825	8°765
4108	18	23°278	10°909	4182	7	5°121	17°182	4256*	60	23°574	22°493					4395	8	20°775	8°356
4109	28	24°549	10°405	4183	10	8°134	17°616	4257	12	24°123	22°955					4396*	32	22°279	8°174
4110	9	25°313	10°245	4184	7	11°587	17°041	4258	10	24°807	22°365					4397	8	22°518	8°845
4111	9	6°951	11°724	4185	10	11°756	17°264	4259	10	25°572	22°814					4398	9	23°308	8°691
4112	9	9°791	11°399	4186	20	16°301	17°972	4260	14	0°895	23°314					4399	6	1°255	9°404
4113	10	10°090	11°265	4187	10	16°833	17°266	4261*	50	2°156	23°717					4400	5	1°974	9°136
4114	9	10°940	11°576</																

4405	9	12°10	9°855	4479	6	5°222	16°644	4553	7	19°094	23°784	4635*	52	16°299	2°505	4709	9	12°275	8°262
4406	6	13°578	9°707	4480	8	22°100	16°951	4554	6	21°932	23°400	4636	16	16°720	2°115	4710*	26	13°763	8°784
4407	6	14°267	9°147	4481	6	22°356	16°356	4555	12	2°836	24°820	4637*	40	17°694	2°946	4711*	48	14°176	8°093
4408	5	15°428	9°185	4482	12	23°109	16°929	4556	8	4°692	24°627	4638	11	17°894	2°244	4712*	42	19°432	8°960
4409	8	20°475	9°286	4483*	32	2°307	17°584	4557	8	5°503	24°145	4639*	31	24°560	2°405	4713	8	19°695	8°197
4410	16	20°526	9°485	4484	11	5°890	17°535	4558	6	5°831	24°569	4640	8	0°397	3°828	4714	11	19°852	8°652
4411	12	22°265	9°141	4485	10	6°083	17°335	4559	12	9°130	24°836	4641	17	5°846	3°781	4715	6	20°516	8°699
4412	28	0°458	10°647	4486	10	9°208	17°411	4560	8	16°236	24°490	4642	12	9°419	3°735	4716	16	25°685	8°664
4413	5	1°213	10°469	4487	11	13°137	17°548	4561	8	16°718	24°575	4643	5	10°909	3°648	4717	16	8°572	9°089
4414	6	2°924	10°069	4488	6	13°245	17°796	4562	8	19°730	24°162	4644	6	14°334	3°704	4718*	33	8°707	9°836
4415	14	3°453	10°592	4489	5	13°692	17°462	4563	6	25°648	24°987	4645	6	14°655	3°535	4719*	15	11°431	9°206
4416	5	6°542	10°031	4490*	22	16°702	17°677	4564	6	6°405	25°844	4646	5	17°703	3°583	4720	18	12°905	9°777
4417*	29	9°581	10°314	4491*	12	19°463	17°335	4565	6	11°486	25°667	4647	12	19°665	3°861	4721	9	13°898	9°035
4418	28	13°966	10°313	4492	5	20°897	17°405	4566	10	16°636	25°074	4648	11	21°878	3°596	4722	11	13°902	9°311
4419	5	15°047	10°446	4493	6	22°425	17°752	4567	8	16°825	25°164	4649*	46	23°046	3°204	4723	5	18°264	9°097
4420	10	20°599	10°139	4494*	31	22°528	17°144	4568*	35	22°884	25°365	4650*	50	24°758	3°516	4724	5	21°892	9°494
4421	10	24°215	10°174	4495	6	3°824	18°046	4569	7	23°105	25°230	4651	29	1°169	4°873	4725	5	22°616	9°893
4422	5	1°611	11°668	4496	9	15°084	18°185					4652	9	1°525	4°645	4726	12	0°392	10°092
4423*	18	3°754	11°212	4497	11	17°274	18°602					4653	6	2°382	4°493	4727	6	1°174	10°473
4424	19	3°754	11°143	4498	11	17°545	18°910					4654	7	6°364	4°285	4728*	24	3°420	10°906
4425	9	7°605	11°658	4499*	8	21°024	18°646					4655	10	8°127	4°255	4729	6	6°515	10°155
4426	14	8°216	11°848	4500	5	21°616	18°709					4656	9	10°314	4°083	4730	6	8°584	10°826
4427	5	9°650	11°975	4501	6	0°991	19°184					4657	11	10°575	4°024	4731	7	10°015	10°316
4428	6	11°716	11°182	4502	5	2°376	19°305					4658	18	12°827	4°790	4732	5	10°903	10°239
4429*	28	13°034	11°184	4503	19	4°000	19°095					4659	6	16°529	4°234	4733	7	17°636	10°836
4430	6	14°960	11°148	4504	8	4°272	19°836					4660	10	16°765	4°465	4734	6	20°914	10°335
4431	5	20°412	11°643	4505	13	6°130	19°542					4661	9	17°731	4°587	4735	6	21°309	10°234
4432	6	0°176	12°537	4506	5	13°081	19°215					4662	7	17°937	4°984	4736*	36	21°394	10°924
4433	10	2°749	12°376	4507	6	16°914	19°661					4663	14	20°205	4°555	4737	5	22°178	10°934
4434*	50	6°238	12°092	4508	7	17°069	19°956					4664	8	21°075	4°435	4738	8	22°559	10°841
4435	6	6°357	12°206	4509	12	18°300	19°596					4665*	30	22°078	4°712	4739	10	22°996	10°704
4436	12	6°934	12°362	4510	8	21°519	19°746					4666*	46	24°934	4°154	4740	10	23°821	10°757
4437	12	10°535	12°491	4511	6	24°249	19°375					4667	20	25°216	4°231	4741	23	2°495	11°105
4438	6	10°805	12°175	4512	6	25°403	19°482					4668	36	0°265	5°146	4742	7	3°792	11°226
4439	5	12°718	12°625	4513	5	25°429	19°264					4669	12	2°409	5°693	4743	6	3°804	11°373
4440	6	15°025	12°249	4514	13	25°882	19°280					4670	7	3°755	5°065	4744	6	13°334	11°344
4441	6	15°531	12°475	4515	6	6°029	20°851					4671	12	4°751	5°545	4745	5	18°288	11°076
4442*	38	19°109	12°094	4516	8	6°406	20°973					4672	20	5°842	5°106	4746	10	22°479	11°860
4443	5	20°822	12°057	4517	9	7°061	20°646					4673	5	7°054	5°976	4747	6	23°112	11°554
4444	15	4°196	13°821	4518	10	10°679	20°984					4674	14	10°502	5°025	4748	8	24°220	11°815
4445*	14	12°390	13°301	4519	12	11°846	20°303					4675	28	11°313	5°566	4749	8	25°625	11°014
4446	12	19°776	13°145	4520	14	13°837	20°217					4676	6	12°218	5°315	4750	9	3°580	12°995
4447	6	21°236	13°183	4521	28	17°067	20°993					4677	9	13°092	5°337	4751	9	8°555	12°558
4448	9	21°693	13°375	4522	6	21°796	20°759					4678	7	13°154	5°934	4752	11	8°849	12°469
4449	10	24°540	13°735	4523	18	24°748	20°245					4679*	24	13°848	5°384	4753	10	11°726	12°394
4450	8	0°493	14°778	4524	7	2°364	21°544					4680	15	15°215	5°860	4754	9	13°205	12°106
4451	5	1°046	14°747	4525	10	6°455	21°376					4681	8	17°575	5°385	4755	20	17°397	12°886
4452	5	5°217	14°151	4526	7	8°698	21°764					4682	7	19°386	5°278	4756	16	25°286	12°362
4453*	16	11°446	14°142	4527	8	10°558	21°756					4683	7	22°519	5°439	4757	16	0°769	13°646
4454	6	12°383	14°747	4528	5	12°635	21°155					4684	12	22°820	5°480	4758	5	1°962	13°790
4455	7	14°368	14°836	4529	8	13°206	21°515					4685	6	25°242	5°505	4759*	38	3°177	13°236
4456	10	14°461	14°636	4530*	36	14°355	21°763					4686	13	0°045	6°897	4760	8	3°666	13°725
4457	6	14°747	14°095	4531	14	15°896	21°601					4687	12	1°321	6°806	4761	6	3°805	13°823
4458	6	16°576	14°814	4532	6	16°513	21°349					4688	10	2°806	6°377	4762	18	4°351	13°837
4459	6	21°960	14°480	4533	5	16°590	21°947					4689*	36	6°459	6°646	4763*	18	6°606	13°574
4460	9	23°167	14°779	4534	12	19°036	21°949					4690	8	12°955	6°811	4764	6	6°818	13°111
4461	12	24°595	14°185	4535	10	25°937	21°725					4691	10	16°966	6°136	4765	10	7°262	13°906
4462	5	25°566	14°995	4536	6	1°791	22°925					4692	8	17°017	6°526	4766	6	7°365	13°657
4463	6	1°523	15°395	4537	8	4°353	22°958					4693	6	23°754	6°955	4767	6	8°191	13°618
4464	20	2°150	15°798	4538	5	5°660	22°782					4694	8	24°399	6°425	4768	5	10°334	13°934
4465*	18	10°936	15°969	4539	6	6°249	22°596					4695	5	25°676	6°044	4769	7	12°506	13°034
4466	5	11°518	15°616	4540	12	7°217	22°636					4696	6	0°885	7°081	4770*	53	12°715	13°520
4467	28	12°055	15°765	4541	7	7°372	22°215					4697	6	3°446	7°128	4771	6	13°542	13°481
4468	8	14°311	15°970	4542	8	7°471	22°502					4698	20	4°559	7°952	4772	9	13°723	13°639
4469	7	14°793	15°576	4543	10	11°025	22°436					4699	6	5°777	7°313	4773	8	13°756	13°680
4470	5	15°140	15°328	4544	8	15°388	22°896					4700	5	9°775	7°285	4774	7	13°886	13°628
4471	12	16°138	15°356	4545	20	17°627	22°511					4701	8	10°128	7°335	4775	10	18°604	13°308
4472	14	16°424	15°507	4546	6	0°132	23°332					4702	8	13°787	7°126	4776	36	22°367	13°061
4473	14	17°560	15°597	4547	5	0°358	23°106					4703	9	17°376	7°715	4777	8	22°504	13°006
4474	7	18°923	15°906	4548	13	1°755	23°214					4704*	32	17°596	7°054	4778	19	25°364	13°498
4475*	64	20°218	15°668	4549	5	10°935	23°480					4705	6	18°491					

4783	18	3°598	14°313	4857	5	13°700	19°318	4931	11	6°657	25°233	5039	8	17°128	6°817	5113	8	7°729	14°993
4784	7	5°788	14°185	4858	29	14°771	19°705	4932	10	8°195	25°396	5040	16	17°214	6°560	5114	9	9°495	14°369
4785*	110	7°887	14°949	4859	10	19°471	19°259	4933*	33	13°756	25°666	5041	5	18°517	6°809	5115	6	14°647	14°592
4786	10	10°171	14°876	4860*	23	21°195	19°495	4934	27	14°935	25°849	5042	10	19°502	6°542	5116	6	15°814	14°487
4787	9	10°246	14°745	4861	27	21°813	19°313	4935	10	16°278	25°354	5043	7	20°351	6°274	5117	8	18°495	14°005
4788	10	11°155	14°563	4862	7	24°538	19°736	4936	11	17°046	25°087	5044	8	21°199	6°374	5118*	55	19°165	14°442
4789	11	21°710	14°593	4863	6	24°609	19°786	4937	17	17°416	25°274	5045	6	22°597	6°136	5119	6	25°575	14°493
4790	12	23°054	14°873	4864	23	1°079	20°155	4938	10	18°196	25°720	5046	13	22°670	6°407	5120	12	0°616	15°677
4791*	34	3°225	15°443	4865	5	1°538	20°108	4939	14	18°507	25°965	5047	14	24°584	6°027	5121	12	14°965	15°955
4792	6	3°826	15°384	4866	5	2°864	20°905	4940	8	22°462	25°574	5048	14	25°876	6°597	5122*	15	15°257	15°666
4793	10	4°395	15°616	4867*	36	4°415	20°308	4941	18	23°891	25°566	5049*	31	0°942	7°584	5123	6	16°328	15°763
4794	6	5°815	15°785	4868	27	5°218	20°205	4942	8	24°874	25°449	5050	12	3°114	7°297	5124	6	20°224	15°896
4795	7	6°653	15°943	4869	19	6°108	20°747	4943	23	24°875	25°258	5051	5	3°385	7°313	5125*	31	25°015	15°377
4796	5	9°935	15°737	4870	19	6°975	20°602					5052	9	9°440	7°500	5126	9	0°867	16°676
4797	12	12°031	15°155	4871	17	10°714	20°154					5053	7	16°332	7°725	5127	29	1°716	16°876
4798*	30	19°465	15°964	4872	7	11°555	20°436					5054	5	22°795	7°746	5128	23	3°284	16°517
4799	8	19°576	15°866	4873	10	14°295	20°269					5055	6	25°574	7°645	5129	12	4°358	16°070
4800	7	19°734	15°878	4874	12	18°835	20°851					5056*	29	4°420	8°225	5130	12	10°865	16°354
4801*	44	20°345	15°202	4875	13	21°303	20°455					5057	5	6°674	8°590	5131	19	12°035	16°077
4802	5	20°845	15°174	4876	14	23°825	20°559					5058	11	9°605	8°896	5132	6	13°331	16°245
4803	6	23°153	15°024	4877	6	24°753	20°515					5059*	34	12°076	8°119	5133	10	18°886	16°595
4804	17	24°424	15°317	4878	5	0°552	21°091					5060	9	17°846	8°296	5134	14	18°979	16°530
4805	6	24°624	15°327	4879	15	2°289	21°614					5061	24	21°425	8°325	5135	5	24°668	16°918
4806	6	2°961	16°396	4880	8	3°234	21°745					5062	10	1°755	9°005	5136	14	25°109	16°607
4807	56	3°818	16°182	4881	14	9°594	21°107					5063	12	4°947	9°772	5137	28	2°294	17°556
4808*	70	3°845	16°221	4882	27	10°866	21°913					5064	5	8°894	9°114	5138	8	8°846	17°469
4809	9	4°762	16°582	4883	6	11°794	21°472					5065	6	14°744	9°359	5139*	20	6°323	18°365
4810	12	5°817	16°595	4884	9	12°425	21°033					5066	5	15°646	9°419	5140	10	8°525	18°245
4811*	66	12°835	16°065	4885	6	13°477	21°934					5067	8	17°013	9°766	5141	6	13°849	18°226
4812	9	14°791	16°495	4886	18	13°835	21°155					5068	20	17°837	9°022	5142	8	14°918	18°246
4813	10	15°057	16°354	4887	16	13°931	21°555					5069*	31	19°059	9°959	5143	12	16°853	18°954
4814	6	17°784	16°113	4888	7	13°965	21°509					5070	7	23°205	9°026	5144	24	17°661	18°532
4815	6	19°465	16°015	4889	27	16°420	21°377					5071	7	2°236	10°917	5145	14	17°835	18°446
4816	5	21°300	16°795	4890	6	19°445	21°392					5072	14	4°118	10°193	5146	11	25°662	18°504
4817	16	22°566	16°336	4891	6	21°598	21°620					5073	14	4°484	10°467	5147	9	25°719	18°222
4818	14	24°656	16°318	4892	8	4°663	22°218					5074	22	7°594	10°297	5148	5	3°301	19°365
4819	7	24°974	16°972	4893	14	6°188	22°654					5075	46	8°407	10°570	5149	6	5°566	19°175
4820	8	25°056	16°788	4894	8	6°450	22°081					5076	8	15°513	10°777	5150*	25	6°805	19°335
4821	34	25°502	16°539	4895	16	7°800	22°084					5077	8	16°429	10°467	5151	6	8°338	19°524
4822*	35	2°595	17°991	4896	12	8°028	22°135					5078	7	17°781	10°091	5152	12	21°696	19°585
4823	7	7°119	17°814	4897	11	8°192	22°590					5079	22	22°907	10°287	5153	8	0°114	20°933
4824*	32	9°185	17°013	4898	8	8°555	22°375					5080	7	1°735	11°352	5154	5	6°796	20°317
4825	6	12°035	17°556	4899	5	11°828	22°400					5081	5	9°416	11°927	5155	11	7°894	20°850
4826	10	12°500	17°155	4900	22	13°997	22°236					5082*	24	10°818	11°397	5156*	27	11°134	20°426
4827	10	13°830	17°805	4901	5	15°465	22°865					5083	5	12°687	11°013	5157	6	11°942	20°685
4828	20	16°420	17°105	4902	6	16°829	22°537					5084	16	14°075	11°241	5158*	22	13°918	20°195
4829	18	17°878	17°143	4903	12	17°121	22°336					5085	6	16°515	11°116	5159	9	19°797	20°085
4830	8	20°815	17°935	4904	31	18°700	22°244					5086	6	17°735	11°777	5160	6	20°056	20°995
4831	17	21°837	17°815	4905	6	20°103	22°186					5087	6	20°060	11°746	5161	5	20°606	20°216
4832	20	23°024	17°581	4906*	54	22°925	22°221					5088	10	22°390	11°379	5162	21	25°001	20°288
4833*	50	23°597	17°173	4907	6	24°065	22°920					5089*	10	23°126	11°911	5163	7	4°708	21°735
4834	7	25°110	17°305	4908	10	4°816	23°451					5090	10	1°424	12°705	5164	8	7°744	21°636
4835	6	25°365	17°496	4909	7	7°692	23°492					5091	6	2°709	12°497	5165	36	11°637	21°744
4836	5	1°086	18°888	4910	9	10°758	23°772					5092*	20	5°644	12°024	5166	11	16°145	21°756
4837	6	3°065	18°578	4911	7	13°216	23°805					5093	9	6°291	12°917	5167	8	17°926	21°586
4838	9	4°144	18°825	4912	5	13°632	23°210					5094	8	8°561	12°509	5168	13	18°568	21°576
4839	8	6°271	18°717	4913	18	13°802	23°510					5095	10	9°715	12°384	5169	15	19°335	21°827
4840	12	11°501	18°805	4914	11	15°874	23°195					5096	9	15°927	12°114	5170	7	20°895	21°647
4841	37	12°372	18°269	4915	6	15°881	23°574					5097	5	24°521	12°426	5171	5	23°175	21°955
4842	7	12°446	18°494	4916	7	23°035	23°585					5098*	34	25°676	12°369	5172	7	2°991	22°916
4843*	28	15°094	18°167	4917	8	2°054	24°877					5099	5	1°376	13°951	5173	6	4°334	22°812
4844*	38	16°623	18°217	4918	7	9°488	24°495					5100	12	1°520	13°842	5174	6	4°371	22°445
4845	35	18°154	18°302	4919	7	9°790	24°504					5101	8	2°235	13°639	5175	8	7°005	22°395
4846	9	18°753	18°714	4920	14	9°858	24°886					5102	10	8°307	13°725	5176	10	19°800	22°137
4847	30	21°625	18°685	4921*	35	10°727	24°617					5103	12	11°015	13°769	5177	12	11°438	23°459
4848	6	24°082	18°775	4922	18	12°657	24°040					5104	28	14°604	13°614	5178	8	12°020	23°109
4849	6	0°568	19°295	4923	10	12°665	24°085					5105	13	15°324	13°232	5179	12	14°300	23°986
4850	11	1°720	19°381	4924	6	15°125	24°365					5106	12	15°425	13°355	5180	8	16°134	23°478
4851	8	1°746	19°162	4925	12	16°344	24°426					5107	7	18°479	13°437	5181*	40	19°807	23°382
4852	20	2°196	19°173	4926*	42	16°645	24°419					5108	5	20°145	13°285	5182	10	22°645	23°244
4853*	52	5°285	19°336																

5187	30	12.564	24.081	5243*	15	1.915	6.677	5317	6	8.406	18.008	5404	9	8.341	0.522	5478	11	9.040	9.799
5188	6	21.797	24.523	5244	7	7.765	6.297	5318	6	12.205	18.064	5405*	13	8.401	0.672	5479	13	16.883	9.401
5189	8	0.275	25.939	5245	10	10.036	6.329	5319	24	13.240	18.405	5406	15	8.468	0.865	5480	9	19.165	9.467
5190	12	1.255	25.609	5246*	40	12.805	6.756	5320*	24	13.252	18.521	5407*	22	9.638	0.889	5481	9	24.073	9.894
5191	6	3.400	25.723	5247	9	20.175	6.187	5321	6	18.668	18.543	5408	10	16.165	0.432	5482	8	0.593	10.707
5192	8	6.556	25.905	5248	8	21.775	6.571	5322	14	25.786	18.416	5409	10	18.738	0.900	5483	7	2.039	10.275
5193	6	14.855	25.811	5249*	28	22.132	6.578	5323	8	16.294	19.964	5410	8	18.787	0.192	5484	12	2.317	10.098
5194	10	15.286	25.732	5250	7	1.636	7.730	5324	8	24.848	19.927	5411	7	20.766	0.786	5485	8	3.778	10.722
5195	7	18.208	25.374	5251*	35	9.455	7.935	5325	18	1.296	20.384	5412	10	22.975	0.472	5486	12	8.680	10.145
5196	10	18.652	25.929	5252	6	14.097	7.339	5326	10	6.085	20.771	5413	11	24.318	0.181	5487	8	16.891	10.489
				5253	12	14.803	7.177	5327	12	6.154	20.777	5414	11	15.327	1.875	5488	12	2.553	11.118
				5254	6	24.280	7.583	5328	6	6.215	20.166	5415	8	6.340	2.954	5489	10	18.312	11.880
				5255	7	2.137	8.203	5329	7	13.645	20.386	5416	8	10.668	2.385	5490	9	20.145	11.254
				5256	10	2.857	8.335	5330	6	17.927	20.165	5417	10	16.583	2.197	5491	8	23.534	11.441
				5257	10	10.263	8.020	5331	6	18.710	20.516	5418	15	18.385	2.990	5492	9	1.254	12.588
				5258*	40	10.465	8.315	5332	8	21.188	20.386	5419	7	24.264	2.045	5493	7	1.798	12.241
				5259	6	10.613	8.502	5333	6	23.835	20.359	5420	12	0.946	3.381	5494	11	10.453	12.470
				5260	14	14.180	8.283	5334	6	4.748	21.245	5421	9	3.019	3.714	5495*	12	14.109	12.491
				5261*	16	19.830	8.321	5335	6	6.578	21.749	5422	11	6.379	3.742	5496	10	18.010	12.137
				5262	11	25.191	8.008	5336	6	6.716	21.734	5423	10	7.590	3.890	5497	8	19.457	12.934
				5263	19	2.564	9.585	5337	18	6.938	21.345	5424	11	9.186	3.169	5498	10	19.989	12.245
				5264	5	5.264	9.536	5338*	20	11.021	21.050	5425	6	9.719	3.067	5499	10	25.564	12.442
				5265	12	7.487	9.095	5339	5	15.167	21.054	5426	8	10.536	3.359	5500	8	1.833	13.500
				5266	22	18.055	9.462	5340	18	22.784	21.275	5427	12	13.652	3.720	5501	10	10.073	13.403
				5267	24	25.804	9.557	5341	9	23.876	21.127	5428	9	15.018	3.092	5502	10	11.701	13.069
				5268	6	6.764	10.653	5342	6	23.892	21.570	5429*	83	1.026	4.169	5503	8	16.812	13.195
				5269	23	7.072	10.566	5343*	58	4.435	22.431	5430	10	1.561	4.622	5504	10	18.550	13.693
				5270	11	9.829	10.179	5344*	33	18.486	22.205	5431	11	2.991	4.926	5505	7	19.821	13.607
				5271	9	19.455	10.941	5345	7	18.900	22.474	5432	10	4.099	4.172	5506*	18	22.927	13.191
				5272	21	21.685	10.367	5346*	27	19.485	22.782	5433	9	7.232	4.809	5507	8	23.041	13.498
				5273	6	24.366	10.775	5347	29	0.282	23.357	5434	6	7.949	4.060	5508	10	23.488	13.781
				5274*	44	9.898	11.773	5348	6	0.403	23.286	5435*	15	9.001	4.085	5509	9	25.501	13.597
				5275	8	16.175	11.823	5349	17	6.232	23.238	5436	20	10.371	4.720	5510	10	2.873	14.469
				5276	7	22.572	11.785	5350	23	8.289	23.349	5437	7	20.680	4.323	5511	8	5.405	14.125
				5277	5	0.672	12.526	5351	12	9.145	23.763	5438	10	23.722	4.342	5512	7	8.063	14.964
				5278*	36	1.824	12.452	5352	6	11.467	23.233	5439	20	4.586	5.359	5513*	10	16.770	14.514
				5279	5	8.133	12.438	5353	8	13.677	23.216	5440	11	8.782	5.873	5514	7	19.673	14.066
				5280	6	9.245	12.766	5354*	90	5.390	24.604	5441	10	10.757	5.482	5515	11	20.580	14.144
				5281	6	16.966	12.946	5355	6	7.399	24.315	5442	8	1.131	6.193	5516	9	22.891	14.151
				5282	10	19.525	12.868	5356*	34	10.295	24.169	5443	17	2.703	6.591	5517	10	23.365	14.917
				5283	5	20.137	12.771	5357	6	12.032	24.228	5444	9	7.304	6.545	5518	10	2.751	15.449
				5284	5	5.880	13.098	5358	9	12.095	24.494	5445	12	7.932	6.741	5519	12	2.829	15.573
				5285	18	6.733	13.561	5359	12	7.075	25.505	5446	11	8.350	6.798	5520	12	7.936	15.997
				5286	10	14.275	13.965	5360	5	11.636	25.334	5447	18	8.469	6.224	5521	9	7.977	15.466
				5287	6	25.560	13.564	5361	10	11.796	25.875	5448	9	11.007	6.019	5522	10	12.048	15.560
				5288	8	5.244	14.386	5362	5	16.786	25.353	5449	8	11.847	6.487	5523	11	15.138	15.759
				5289*	36	5.914	14.516	5363	12	17.560	25.088	5450	7	13.783	6.508	5524	10	15.319	15.718
				5290*	32	16.278	14.834	5364	6	18.115	25.205	5451	9	15.385	6.732	5525	10	16.366	15.535
				5291	8	17.230	14.179	5365	27	19.065	25.956	5452	8	17.661	6.990	5526	10	18.878	15.173
				5292	6	19.198	14.416	5366	8	23.092	25.785	5453	7	20.963	6.093	5527*	22	24.397	15.403
				5293*	29	1.216	15.473					5454	8	0.464	7.486	5528	9	25.668	15.659
				5294	10	7.249	15.025					5455	10	1.385	7.906	5529	10	1.278	16.232
				5295	7	10.022	15.561					5456	8	2.263	7.944	5530	9	4.359	16.801
				5296*	28	11.370	15.930					5457*	35	3.828	7.893	5531	10	9.814	16.039
				5297	6	20.024	15.354					5458*	20	11.055	7.128	5532	8	13.014	16.326
				5298	12	1.336	16.704					5459	7	12.337	7.537	5533	9	15.408	16.052
				5299	5	2.605	16.932					5460	13	13.662	7.396	5534	11	23.866	16.976
				5300*	18	6.040	16.233					5461	10	13.823	7.949	5535	10	1.959	17.276
				5301	7	13.565	16.300					5462	10	15.941	7.039	5536*	9	5.380	17.080
				5302	9	24.965	16.265					5463	7	18.700	7.335	5537	10	7.119	17.434
				5303	5	0.900	17.026					5464	10	19.650	7.859	5538	17	7.416	17.868
				5304	12	2.713	17.782					5465	8	24.246	7.117	5539*	15	16.904	17.361
				5305	7	12.066	17.026					5466	8	0.688	8.921	5540	10	19.305	17.319
				5306	5	13.270	17.547					5467	7	4.466	8.980	5541	12	2.134	18.390
				5307	21	15.635	17.825					5468	7	6.112	8.743	5542*	20	5.580	18.068
				5308	9	18.443	17.034					5469	16	6.180	8.682	5543	9	6.146	18.028
				5309	6	21.537	17.718					5470*	15	9.000	8.399	5544	7	8.613	18.882
				5310	5	25.273	17.654					5471	19	10.240	8.838	5545	12	19.231	18.439
				5311	7	25.625	17.314					5472	14	14.325	8.332	5546	10	21.978	18.425
				5312	10	1.924	18.586					5473	10	17.069	8.780	5547	10	1.214	19.926
				5313	8	1.975	18.305					5474*	15	2.025	9.459	5548	8	4.132	19.168
				5314	12	3.166	18.736					5475	8	4.014	9.879	5549	18	6.264	19.616
				5315	6	7.675	18.645					5476	7	7.888	9.731	5550	10	14.669	19.772
				5316*	30	7.795	18.591					5477	10	8.558	9.349	5551	8	21.531	19.239

5552	18	6°598	20°631	5610	6	4°074	1°733	5684	6	6°484	8°601	5758	13	11°960	13°446	5832	11	17°083	18°039
5553*	30	13°138	20°355	5611	6	8°789	1°399	5685	16	6°699	8°616	5759	5	12°607	13°053	5833	8	17°568	18°863
5554	15	17°844	20°781	5612	5	0°449	2°216	5686	10	8°258	8°478	5760	4	16°398	13°054	5834	9	18°411	18°651
5555*	25	24°450	20°178	5613	5	1°841	2°688	5687	5	9°817	8°864	5761	8	18°368	13°739	5835	13	19°410	18°895
5556	10	0°247	21°150	5614*	36	2°882	2°291	5688	4	13°083	8°544	5762	6	19°102	13°720	5836	21	19°549	18°180
5557	8	0°266	21°596	5615	8	3°292	2°784	5689	7	16°148	8°590	5763	7	19°332	13°280	5837	7	19°926	18°760
5558	6	9°370	21°511	5616	22	9°107	2°239	5690	20	16°290	8°111	5764	4	20°471	13°411	5838	9	20°783	18°689
5559	9	11°579	21°797	5617	4	10°894	2°472	5691	8	17°653	8°871	5765	8	20°647	13°511	5839	8	23°502	18°321
5560	10	17°247	21°486	5618	7	11°433	2°655	5692	15	17°715	8°218	5766	5	21°991	13°454	5840	6	25°268	18°102
5561	10	22°969	21°360	5619*	20	16°835	2°497	5693	10	20°459	8°827	5767	5	22°662	13°563	5841	7	1°229	19°079
5562	13	24°519	21°168	5620	12	20°196	2°495	5694*	25	21°441	8°069	5768	5	25°299	13°685	5842	6	4°167	19°576
5563	13	2°728	22°562	5621	12	3°022	3°930	5695	5	24°104	8°685	5769	7	1°592	14°835	5843	5	4°886	19°515
5564	8	8°515	22°180	5622	20	3°689	3°896	5696	8	24°990	8°764	5770	16	4°928	14°844	5844	6	15°956	19°631
5565	8	9°847	22°075	5623	7	7°094	3°570	5697	7	25°358	8°086	5771	13	6°119	14°771	5845	6	16°207	19°620
5566	10	12°068	22°808	5624	9	8°119	3°287	5698	6	3°237	9°020	5772	23	6°621	14°924	5846*	23	19°614	19°241
5567*	60	12°813	22°841	5625	22	12°984	3°577	5699	21	4°202	9°160	5773	6	7°337	14°965	5847	14	22°686	19°259
5568	8	13°109	22°060	5626	12	13°117	3°191	5700	7	4°978	9°757	5774	14	7°764	14°442	5848	6	23°330	19°969
5569	10	14°462	22°041	5627	5	13°514	3°155	5701	5	6°332	9°600	5775	7	7°864	14°410	5849	6	23°687	19°851
5570	10	17°241	22°709	5628	5	14°676	3°243	5702	6	8°451	9°620	5776	7	9°086	14°177	5850	23	24°391	19°915
5571	10	19°758	22°681	5629	23	17°815	3°528	5703*	42	9°272	9°626	5777	10	9°220	14°107	5851*	35	1°097	20°197
5572	15	25°512	22°802	5630	12	17°874	3°413	5704	10	9°881	9°477	5778	5	9°233	14°456	5852	13	8°599	20°570
5573*	24	10°275	23°775	5631	12	21°819	3°172	5705	8	12°598	9°525	5779	5	11°747	14°420	5853	5	9°822	20°078
5574	10	11°280	23°940	5632	11	5°582	4°487	5706	9	14°018	9°590	5780	13	19°908	14°931	5854	9	13°288	20°868
5575	9	11°586	23°959	5633	21	5°679	4°229	5707	12	15°746	9°145	5781*	11	20°777	14°507	5855	12	18°269	20°161
5576	10	14°509	23°771	5634	5	6°287	4°746	5708	11	16°241	9°271	5782	6	21°322	14°329	5856	7	19°306	20°421
5577*	20	15°633	23°785	5635*	24	8°676	4°354	5709	23	17°017	9°568	5783	5	22°962	14°562	5857	23	1°186	21°178
5578	20	19°698	23°567	5636*	58	9°093	4°552	5710	13	20°471	9°883	5784*	23	25°799	14°128	5858	8	5°559	21°829
5579	10	19°994	23°560	5637	7	9°553	4°267	5711	22	21°957	9°345	5785*	29	0°919	15°462	5859*	53	11°526	21°838
5580	12	23°167	23°545	5638	6	11°759	4°131	5712	4	23°369	9°127	5786	16	2°190	15°685	5860	11	18°893	21°782
5581*	21	24°648	23°621	5639	12	14°742	4°937	5713	7	0°457	10°005	5787	8	5°034	15°249	5861	23	2°213	22°774
5582	11	5°967	24°613	5640	5	16°109	4°210	5714	5	0°657	10°851	5788	6	5°472	15°460	5862	5	13°211	22°623
5583	10	9°770	24°596	5641	10	22°338	4°541	5715	7	4°968	10°070	5789	5	10°126	15°198	5863	7	16°064	22°116
5584	12	16°676	24°372	5642	4	25°205	4°913	5716	9	5°081	10°489	5790	5	10°162	15°693	5864	11	21°033	22°697
5585*	50	4°158	25°382	5643	6	0°480	5°969	5717	7	7°555	10°249	5791	5	11°112	15°809	5865	4	21°362	22°733
5586	10	5°776	25°240	5644	4	5°332	5°594	5718	11	8°164	10°194	5792	16	13°968	15°789	5866	5	21°966	22°434
5587	9	6°863	25°080	5645	5	5°458	5°638	5719	9	8°275	10°050	5793	7	14°028	15°791	5867	12	22°106	22°854
5588	8	7°650	25°460	5646	5	8°892	5°533	5720	11	8°925	10°051	5794	5	17°164	15°925	5868*	20	24°442	22°446
5589	8	8°467	25°774	5647	7	12°052	5°476	5721*	43	10°497	10°964	5795	17	18°101	15°788	5869*	28	25°785	22°419
5590	23	9°784	25°911	5648	5	12°765	5°450	5722	8	11°075	10°247	5796	13	18°566	15°673	5870*	30	1°374	23°604
5591	10	15°658	25°068	5649	13	13°182	5°930	5723	7	11°436	10°255	5797	9	18°923	15°607	5871	6	7°094	23°438
5592	18	17°900	25°803	5650	4	14°225	5°556	5724	9	12°468	10°294	5798	18	6°059	16°740	5872	11	9°806	23°799
5593	14	23°355	25°983	5651	11	19°522	5°192	5725	12	15°244	10°173	5799*	29	7°874	16°392	5873	20	10°515	23°290
				5652	5	20°823	5°216	5726	18	18°248	10°631	5800	6	8°036	16°049	5874	11	11°237	23°493
				5653	8	24°800	5°848	5727	24	18°408	10°365	5801	6	10°550	16°539	5875	15	11°857	23°377
				5654	5	3°659	6°534	5728	7	20°351	10°970	5802	5	11°355	16°825	5876	5	15°223	23°647
				5655	7	4°549	6°229	5729	4	21°312	10°537	5803	5	15°569	16°254	5877	6	17°517	23°800
				5656	18	4°701	6°230	5730	24	24°275	10°722	5804	6	17°809	16°394	5878	4	17°602	23°315
				5657	11	5°062	6°288	5731	4	24°747	10°234	5805	6	20°941	16°893	5879	4	20°298	23°878
				5658	4	5°827	6°641	5732*	23	7°060	11°785	5806	16	21°257	16°061	5880	5	7°228	24°067
				5659	26	6°452	6°454	5733	6	7°475	11°194	5807	23	22°536	16°767	5881	5	9°796	24°310
				5660	12	12°586	6°969	5734	5	7°489	11°201	5808	5	25°341	16°960	5882	11	13°626	24°373
				5661	11	14°042	6°401	5735	13	9°680	11°254	5809	16	0°433	17°039	5883	19	15°817	24°945
				5662	14	19°736	6°722	5736	16	10°848	11°810	5810	21	3°179	17°783	5884	11	19°661	24°703
				5663	5	20°185	6°314	5737	6	11°643	11°756	5811	16	5°045	17°356	5885	26	0°155	25°983
				5664	12	0°560	7°252	5738	7	14°057	11°533	5812	12	7°306	17°092	5886*	44	3°178	25°454
				5665	13	2°697	7°314	5739	14	14°312	11°916	5813	5	8°452	17°038	5887	11	6°769	25°029
				5666	4	5°449	7°349	5740	5	16°042	11°168	5814	6	9°437	17°782	5888*	24	9°774	25°561
				5667	5	6°484	7°516	5741	5	16°623	11°031	5815	16	10°524	17°391	5889	23	12°935	25°720
				5668	6	6°766	7°545	5742	20	18°267	11°620	5816	15	12°328	17°618	5890	4	22°168	25°086
				5669	5	6°919	7°131	5743	21	18°852	11°871	5817	4	12°744	17°939	5891	8	25°058	25°402
				5670	17	7°612	7°215	5744*	31	23°021	11°898	5818	21	13°278	17°119				
				5671	20	8°262	7°881	5745	11	2°000	12°500	5819	5	13°770	17°843				
				5672	12	8°522	7°426	5746	6	2°503	12°522	5820	6	14°336	17°585				
				5673	7	10°507	7°933	5747	13	4°831	12°226	5821	5	17°923	17°818				
				5674	8	12°162	7°460	5748	7	8°794	12°801	5822	5	18°291	17°339				
				5675	9	15°548	7°711	5749	6	8°977	12°056	5823	4	20°434	17°858				
				5676	20	22°341	7°262	5750	5	11°539	12°551	5824	9	21°067	17°389				
				5677	9	22°498	7°844	5751	8	12°672	12°636	5825*	32	4°880	18°957				
				5678	15	22°512	7°632	5752	6	15°528	12°744	5826</							

R. A. 3^h 0^m

Plate 1488; 1900 Jan. 17.

Provisional Constants.

A B C
-00022 +00464 -3214D E F
-00471 -00017 -1538Mag. = 14.5 - 1.02 $\sqrt{d}$

No.	d	x	y
5901	9	8.011	0.761
5902	9	18.342	0.626
5903	9	20.129	0.265
5904*	20	20.515	0.725
5905*	26	6.916	1.986
5906	5	8.283	1.815
5907	6	19.235	1.160
5908	14	25.694	1.832
5909	12	2.335	2.985
5910	8	2.410	2.611
5911	7	3.085	2.414
5912	8	5.095	2.458
5913*	39	6.205	2.962
5914	6	7.615	2.737
5915	7	7.978	2.485
5916	6	9.633	2.795
5917	14	12.117	2.114
5918	8	14.382	2.294
5919	10	16.904	2.868
5920	10	18.707	2.295
5921	10	3.324	3.837
5922	6	4.295	3.784
5923	7	4.624	3.195
5924	5	4.862	3.533
5925	9	6.869	3.458
5926	8	6.986	3.371
5927	12	8.324	3.075
5928	5	13.172	3.295
5929	9	15.665	3.005
5930	10	16.056	3.155
5931	5	16.455	3.866
5932	6	20.876	3.830
5933	10	22.732	3.025
5934	10	8.655	4.155
5935	7	11.075	4.611
5936*	35	12.274	4.376
5937	6	16.504	4.977
5938	10	16.915	4.084
5939	10	17.223	4.097
5940	7	22.055	4.856
5941	6	24.170	4.776
5942	5	24.744	4.737
5943	5	25.534	4.597
5944	12	1.646	5.457
5945	8	3.905	5.214
5946	6	4.719	5.966
5947	7	6.043	5.455
5948	6	8.202	5.384
5949	8	8.855	5.945
5950	6	10.157	5.917
5951	7	10.912	5.998
5952	7	10.915	5.633
5953	5	11.337	5.438
5954	10	18.561	5.313
5955	8	24.045	5.775
5956	8	25.615	5.516

5957	6	0.317	6.096	6031	6	8.397	13.346	6105	7	5.177	19.865
5958	8	3.209	6.979	6032	12	11.259	13.374	6106	6	7.695	19.911
5959	11	3.563	6.675	6033	14	13.510	13.912	6107	20	7.765	19.673
5960	8	5.375	6.260	6034	10	15.196	13.379	6108	18	8.562	19.775
5961	10	5.510	6.904	6035	10	22.975	13.105	6109	7	10.096	19.368
5962	6	8.024	6.727	6036	8	25.013	13.427	6110	14	10.114	19.386
5963	8	8.065	6.785	6037*	19	1.430	14.364	6111	6	12.205	19.895
5964	5	8.979	6.658	6038	6	2.773	14.346	6112	5	14.758	19.191
5965	15	9.022	6.134	6039	7	3.161	14.324	6113	6	15.480	19.539
5966*	42	11.721	6.556	6040	12	7.482	14.264	6114	9	17.927	19.573
5967	11	11.811	6.613	6041*	42	7.505	14.226	6115	7	19.377	19.715
5968	8	13.055	6.858	6042	6	7.961	14.537	6116	5	19.441	19.562
5969	9	13.396	6.135	6043	21	9.780	14.595	6117	7	20.853	19.797
5970	5	13.765	6.089	6044	6	11.717	14.998	6118	6	21.641	19.618
5971	5	16.715	6.611	6045	6	12.015	14.215	6119	10	22.791	19.314
5972*	56	23.817	6.056	6046	8	12.185	14.326	6120	21	0.100	20.167
5973	8	2.721	7.974	6047	11	12.432	14.933	6121	7	2.060	20.298
5974	9	4.490	7.035	6048	11	14.055	14.955	6122	8	5.775	20.274
5975	24	6.755	7.885	6049	13	16.006	14.007	6123	10	8.047	20.668
5976	14	6.857	7.514	6050	8	18.955	14.589	6124	11	11.834	20.770
5977	7	8.882	7.469	6051	12	22.315	14.885	6125	6	12.073	20.413
5978	6	9.466	7.998	6052	6	2.233	15.576	6126	11	14.877	20.699
5979*	37	10.414	7.075	6053	8	2.770	15.700	6127	13	18.775	20.855
5980*	18	10.620	7.467	6054	6	14.682	15.318	6128	5	19.503	20.173
5981	10	13.231	7.388	6055	6	17.126	15.487	6129	5	20.887	20.468
5982	5	13.891	7.684	6056	11	20.077	15.139	6130	9	21.381	20.523
5983	7	14.311	7.471	6057	6	24.685	15.716	6131	6	25.155	20.483
5984	10	14.995	7.958	6058	8	25.465	15.599	6132	9	1.823	21.782
5985	8	20.015	7.815	6059	7	1.338	16.618	6133	10	6.375	21.095
5986	8	20.028	7.823	6060	18	2.957	16.385	6134	12	8.219	21.041
5987	19	22.852	7.744	6061	8	3.177	16.544	6135	10	8.829	21.055
5988	6	23.934	7.268	6062	16	7.567	16.302	6136	6	9.430	21.486
5989	6	0.905	8.325	6063	7	9.362	16.858	6137	10	13.543	21.569
5990	5	1.570	8.696	6064	8	11.686	16.346	6138*	44	16.131	21.618
5991	6	2.841	8.760	6065	8	11.842	16.845	6139	7	16.398	21.245
5992	22	3.717	8.366	6066	12	11.884	16.996	6140	16	17.210	21.464
5993	10	4.055	8.625	6067	5	14.270	16.827	6141	18	21.145	21.754
5994	6	4.515	8.986	6068	13	14.454	16.109	6142*	65	22.235	21.115
5995	5	4.632	8.479	6069	15	15.164	16.142	6143	7	25.692	21.378
5996	7	10.713	8.493	6070	6	16.100	16.465	6144*	14	0.182	22.703
5997	12	21.125	8.476	6071	6	17.454	16.713	6145*	26	1.529	22.656
5998	6	0.547	9.011	6072	6	20.362	16.613	6146	7	6.685	22.964
5999	13	7.649	9.199	6073	7	21.420	16.945	6147	12	12.287	22.815
6000	13	19.586	9.110	6074	8	24.239	16.435	6148	8	13.147	22.645
6001	6	10.765	10.070	6075	6	1.538	17.518	6149*	30	17.482	22.065
6002	5	11.015	10.347	6076*	21	1.699	17.488	6150	7	17.751	22.673
6003	7	11.490	10.995	6077	8	8.479	17.889	6151	30	24.127	22.976
6004	6	12.971	10.198	6078	8	8.847	17.666	6152*	30	3.606	23.116
6005	5	13.455	10.098	6079	6	9.155	17.177	6153	7	5.894	23.676
6006	6	15.222	10.951	6080	10	11.254	17.856	6154	6	8.468	23.335
6007	9	15.450	10.644	6081	12	12.340	17.789	6155	7	15.208	23.053
6008	9	15.702	10.884	6082	5	12.907	17.054	6156	6	17.338	23.445
6009	11	20.780	10.197	6083	7	14.123	17.243	6157	7	18.614	23.997
6010	10	21.360	10.638	6084	5	14.745	17.180	6158	19	19.677	23.286
6011	5	21.384	10.883	6085	12	14.905	17.796	6159	7	25.165	23.674
6012	14	22.226	10.717	6086	16	21.184	17.034	6160	10	10.705	24.231
6013	10	23.470	10.183	6087	26	23.275	17.225	6161	6	16.169	24.215
6014	5	24.156	10.285	6088	7	24.985	17.336	6162	8	19.166	24.037
6015	8	5.006	11.586	6089	6	0.955	18.344	6163	18	21.778	24.039
6016*	58	6.186	11.360	6090	6	6.755	18.179	6164	10	22.430	24.300
6017	5	6.215	11.597	6091	8	7.339	18.930	6165	16	24.987	24.497
6018	6	18.355	11.339	6092	7	9.954	18.937	6166	6	0.841	25.651
6019	6	1.677	12.784	6093	14	11.469	18.813	6167*	26	9.950	25.361
6020	5	6.057	12.747	6094	20	11.668	18.941	6168	10	11.755	25.075
6021	6	7.250	12.161	6095	20	11.978	18.806	6169	8	12.612	25.121
6022	5	8.512	12.417	6096	5	12.590	18.010	6170	23	13.746	25.530
6023	10	13.520	12.047	6097	8	13.251	18.792	6171	12	17.149	25.440
6024	9	14.646	12.067	6098	8	15.761	18.566	6172	27	19.270	25.847
6025	5	21.592	12.461	6099	6	17.850	18.816	6173	6	20.750	25.555
6026	7	23.831	12.013	6100	6	18.467	18.804	6174	8	24.112	25.075
6027*	34	25.088	12.273	6101	8	21.187	18.535				
6028	8	2.114	13.114	6102	17	24.805	18.199				
6029	5	5.932	13.607	6103	5	25.434	18.235				
6030	10	6.509	13.067	6104	5	3.400	19.325				

R. A. 3^h 9^m

Plate 1273; 1899 Jan. 25.

Provisional Constants.

A B C
-00002 +01030 -3746D E F
-01021 -00044 +0145Mag. = 16.1 - 1.02 $\sqrt{d}$

No.	d	x	y
6201	28	5.666	0.393
6202	11	9.682	0.263
6203	28	11.346	0.234
6204	12	23.724	0.104
6205	20	9.857	1.792
6206	6	11.425	1.323
6207	20	18.614	1.630
6208*	38	20.944	1.413
6209	16	1.623	2.078
6210*	20	5.969	2.369
6211	14	10.637	2.703
6212	36	21.995	2.328
6213	8	24.506	2.838
6214*	73	25.025	2.955
6215	8	7.680	3.406
6216	13	9.201	3.100
6217	5	25.190	3.153
6218	14	4.469	4.015
6219	5	9.154	4.496
6220	14	9.995	4.558
6221*	37	22.267	4.035
6222*	10	22.536	4.165
6223	7	23.096	4.664
6224	8	1.632	5.766
6225	10	9.380	5.356
6226	10	14.201	5.379
6227	6	20.205	5.619
6228	8	21.775	5.502
6229	8	9.976	6.876
6230	8	11.155	6.243
6231	21	11.371	6.999
6232	9	13.422	6.267
6233	16	18.826	6.022
6234	7	21.388	6.393
6235	7	22.179	6.055
6236	17	22.331	6.427
6237	12	7.971	7.828
6238	10	10.290	7.472
6239	15	11.912	7.805
6240	9	17.285	7.219
6241	10	20.733	7.062
6242	16	21.293	7.417
6243	8	6.774	8.567
6244	6	7.226	8.206
6245	19	8.359	8.512
6246	9	20.696	8.208
6247	6	7.335	9.600
6248	14	16.868	9.956
6249	5	17.438	9.427
6250	8	18.627	9.694
6251	12	6.392	10.172
6252	10	23.796	10.706
6253	30	12.109	11.965
6254	10	12.658	11.620
6255	19	15.851	11.391
6256	11	18.558	11.252

6257*	50	12.67	12.531
6258	14	8.895	12.342
6259	18	14.653	12.556
6260	6	16.075	12.770
6261	14	21.076	12.815
6262	5	24.807	12.578
6263	5	24.960	12.174
6264	7	1.217	13.686
6265	7	6.824	13.938
6266	5	15.188	13.338
6267	30	17.641	13.152
6268	6	3.375	14.865
6269	6	5.215	14.673
6270	5	6.725	14.569
6271	6	6.915	14.319
6272	7	7.924	14.752
6273*	28	17.223	14.435
6274*	57	18.162	14.234
6275*	48	19.738	14.155
6276	10	1.725	15.846
6277	16	3.695	15.792
6278	6	8.968	15.535
6279	5	9.277	15.884
6280	18	13.723	15.308
6281	6	14.120	15.664
6282	7	15.493	15.467
6283	8	0.515	16.715
6284	9	3.086	16.741
6285*	46	11.740	16.354
6286	8	13.745	16.875
6287*	58	21.815	16.982
6288	6	1.284	17.596
6289	11	7.665	17.073
6290	7	12.042	17.510
6291	7	16.653	17.765
6292*	80	18.168	17.515
6293	7	20.816	17.895
6294	18	21.085	17.276
6295*	35	24.191	17.066
6296	19	1.124	18.465
6297	14	3.006	18.376
6298*	30	8.917	18.495
6299	12	8.285	19.563
6300	8	8.599	19.717
6301	5	1.528	20.736
6302	8	8.313	20.706
6303	6	10.819	20.138
6304	5	13.198	20.456
6305*	50	13.237	20.995
6306	12	19.555	20.515
6307	6	20.776	20.202
6308	27	21.515	20.039
6309	7	2.085	21.620
6310	5	6.216	21.174
6311	5	22.137	21.064
6312	5	18.718	22.209
6313	6	25.463	22.197
6314	44	0.564	23.255
6315	6	1.605	23.930
6316*	70	9.145	23.206
6317	10	12.423	23.525
6318*	49	16.656	23.938
6319	6	17.203	23.081
6320	16	1.456	24.757
6321	8	8.402	24.591
6322	13	13.256	24.597
6323	7	15.266	24.405
6324	14	17.005	24.458
6325	17	23.936	24.935
6326	6	0.595	25.355
6327	8	1.795	25.395
6328	29	8.082	25.024
6329	12	19.934	25.940
6330*	42	20.328	25.798

R. A. 3^h 18^m

Plate 1274; 1899 Jan. 25.

Provisional Constants.

A	B	C
-00010	+00781	-3646

D	E	F
-00800	-00032	+0706

Mag. = 15.7 - 1.02 $\sqrt{d}$

No.	d	x	y
6401*	51	5.804	0.215
6402	6	8.034	0.638
6403	7	15.965	0.746
6404	8	17.324	0.586
6405	12	18.599	0.005
6406*	16	19.556	0.295
6407*	14	23.785	0.452
6408	10	25.813	0.316
6409	18	7.648	1.040
6410	26	9.844	1.124
6411	14	10.374	1.827
6412*	57	11.425	1.521
6413	8	16.215	1.728
6414	8	17.754	1.118
6415	36	18.829	1.085
6416	8	18.874	1.298
6417	8	23.150	1.631
6418	6	23.494	1.826
6419	7	2.144	2.054
6420	11	2.190	2.942
6421	12	9.752	2.599
6422	6	11.404	2.052
6423	8	11.776	2.066
6424	7	0.494	3.145
6425*	68	1.010	3.254
6426*	80	7.846	3.995
6427	19	14.046	3.269
6428	18	14.218	3.255
6429	9	17.793	3.887
6430	25	20.652	3.726
6431	6	21.399	3.750
6432	5	5.805	4.953
6433	22	8.524	4.795
6434*	54	9.925	4.940
6435	7	14.349	4.979
6436	10	16.362	4.762
6437	8	20.854	4.776
6438	5	22.433	4.796
6439	7	24.538	4.034
6440	8	5.466	5.043
6441	20	11.858	5.231
6442	17	14.532	5.948
6443	10	16.856	5.667
6444*	20	19.215	5.408
6445*	40	22.295	5.757
6446	6	22.328	5.064
6447	6	24.555	5.606
6448	7	25.391	5.226
6449	26	5.676	6.355
6450	7	7.727	6.867
6451	6	13.193	6.908
6452	7	13.334	6.765
6453	14	14.389	6.845
6454	27	15.235	6.705
6455	6	18.615	6.081
6456	8	4.383	7.727

6457	8	8.185	7.320
6458	9	10.816	7.531
6459	14	13.808	7.285
6460*	38	14.240	7.995
6461	8	17.200	7.245
6462	10	19.855	7.852
6463	23	20.975	7.514
6464	10	6.102	8.515
6465	7	15.032	8.590
6466	7	19.925	8.943
6467	8	3.567	9.110
6468	6	4.502	9.427
6469	10	8.016	9.775
6470	7	13.690	9.717
6471	10	13.695	9.895
6472	17	14.755	9.592
6473	10	16.268	9.175
6474	10	21.330	9.826
6475	8	21.680	9.225
6476	6	24.636	9.546
6477	7	3.336	10.012
6478	5	7.429	10.446
6479	11	18.400	10.969
6480	6	21.015	10.516
6481	6	22.205	10.806
6482	6	22.295	10.217
6483	24	4.051	11.469
6484	5	4.822	11.381
6485	8	6.512	11.611
6486	6	8.386	11.632
6487	8	11.921	11.645
6488	27	13.495	11.916
6489	10	13.967	11.823
6490	9	14.569	11.965
6491	6	22.924	11.333
6492	6	0.947	12.882
6493	6	1.086	12.472
6494*	47	2.610	12.614
6495	12	3.954	12.455
6496	14	5.933	12.721
6497	16	6.676	12.646
6498*	26	8.435	12.965
6499	20	12.212	12.697
6500	10	17.824	12.555
6501	10	22.295	12.565
6502	8	2.739	13.174
6503	5	2.884	13.025
6504*	46	4.097	13.937
6505	14	4.135	13.430
6506*	10	5.826	13.480
6507*	12	7.479	13.381
6508	8	11.161	13.249
6509	8	11.528	13.522
6510	15	12.194	13.318
6511*	33	13.338	13.854
6512	12	13.785	13.611
6513	6	18.908	13.765
6514	6	20.353	13.918
6515	6	20.894	13.402
6516	7	24.203	13.576
6517	18	24.225	13.289
6518	6	24.986	13.264
6519	7	16.250	14.473
6520	29	19.718	14.135
6521	14	22.423	14.626
6522	13	20.494	15.772
6523	11	22.595	15.593
6524	6	25.440	15.543
6525*	38	7.749	16.771
6526	8	14.720	16.580
6527*	80	14.773	16.545
6528	17	23.255	16.965
6529*	34	0.402	17.379
6530	8	4.105	17.185

R. A. 3^h 27^m

Plate 1489; 1900 Jan. 17.

Provisional Constants.

A	B	C
-00047	+00101	-2205

D	E	F
-00112	-00019	-2617

Mag. = 14.5 - 1.02 $\sqrt{d}$

No.	d	x	y
6601	12	1.894	0.163
6602	8	6.728	0.057
6603	8	13.705	0.318
6604	5	14.374	0.435
6605	6	14.795	0.825
6606	8	16.135	0.504
6607	5	17.847	0.244
6608	9	20.825	0.764
6609*	28	21.057	0.876
6610*	20	22.965	0.324
6611	5	23.545	0.214
6612	22	2.330	1.592
6613	6	2.629	1.768
6614	15	5.161	1.346
6615	6	8.314	1.835
6616	6	8.561	1.934
6617	5	10.254	1.343
6618*	20	11.680	1.094
6619	5	12.492	1.840
6620	8	14.898	1.183
6621	8	15.112	1.367
6622	5	16.776	1.494
6623	10	19.396	1.976
6624	10	20.303	1.493
6625	6	21.912	1.336
6626	5	3.354	2.426
6627	12	4.986	2.883
6628	9	6.941	2.776
6629	7	9.689	2.727
6630	14	13.189	2.285
6631	11	21.655	2.455
6632	14	23.218	2.156
6633	16	23.440	2.972
6634	6	0.653	3.900
6635	5	4.595	3.485
6636	5	7.179	3.924
6637	5	7.800	3.181
6638*	48	8.233	3.501
6639*	50	8.268	3.502
6640	6	9.460	3.684
6641	14	13.065	3.165
6642	7	13.075	3.945
6643*	32	19.037	3.026
6644	11	19.764	3.166
6645	12	20.464	3.607
6646	5	20.554	3.724
6647*	38	20.849	3.862
6648	5	21.934	3.425
6649	6	23.143	3.964
6650	20	23.575	3.950
6651	10	3.229	4.190
6652	6	3.726	4.695
6653	5	4.414	4.924
6654	6	6.716	4.557
6655	7	7.530	4.735
6656	5	8.653	4.768

6657	6	9°524	4°998	6731	24	9°969	9°804	6805	6	9°087	16°114	6879*	32	6°496	23°492	6935	10	5°491	2°005
6658	6	14°385	4°445	6732	6	10°994	9°546	6806	7	9°500	16°382	6880	14	6°537	23°177	6936	6	6°056	2°226
6659	6	14°675	4°975	6733	22	16°216	9°723	6807	6	10°454	16°325	6881	7	6°564	23°946	6937	10	7°306	2°815
6660	8	16°858	4°835	6734	6	16°543	9°385	6808*	16	10°674	16°813	6882	8	14°174	23°323	6938	12	10°732	2°190
6661	12	18°275	4°315	6735	8	18°815	9°623	6809	6	11°636	16°745	6883*	56	22°105	23°451	6939	10	11°269	2°548
6662	6	18°429	4°558	6736	13	20°084	9°814	6810	13	12°609	16°833	6884	15	25°047	23°385	6940	6	12°477	2°815
6663	8	24°485	4°463	6737	5	23°956	9°461	6811	8	15°342	16°062	6885	5	25°527	23°623	6941	6	13°129	2°777
6664	9	25°055	4°596	6738	6	24°259	9°203	6812	5	16°285	16°070	6886	14	2°483	24°225	6942	6	13°813	2°403
6665	5	0°691	5°471	6739	10	24°927	9°205	6813	6	18°590	16°215	6887	5	12°376	24°315	6943	6	14°056	2°184
6666	6	1°516	5°085	6740	5	2°539	10°807	6814	7	22°317	16°233	6888	5	16°664	24°993	6944	22	15°985	2°760
6667	7	4°352	5°818	6741	8	3°355	10°995	6815	10	23°136	16°955	6889*	33	17°663	24°465	6945	6	16°638	2°464
6668*	40	7°382	5°325	6742	26	5°057	10°335	6816	6	25°037	16°562	6890	8	19°196	24°507	6946	10	16°822	2°908
6669*	46	7°499	5°415	6743	7	6°695	10°085	6817	7	25°914	16°403	6891	6	25°639	24°216	6947	9	17°284	2°945
6670	6	8°131	5°096	6744	10	9°125	10°735	6818	12	3°793	17°671	6892	10	6°757	25°926	6948	6	17°658	2°455
6671	6	11°975	5°414	6745	12	12°572	10°365	6819	6	5°669	17°536	6893	5	19°303	25°656	6949	13	18°428	2°819
6672	6	17°004	5°741	6746	7	13°520	10°285	6820	18	5°736	17°405	6894	7	19°972	25°116	6950	7	20°606	2°977
6673	5	17°485	5°797	6747	6	14°275	10°096	6821	6	7°173	17°591	6895	13	23°133	25°574	6951	33	24°894	2°686
6674	12	19°924	5°533	6748	5	16°207	10°893	6822*	7	7°785	17°128					6952	8	25°756	2°206
6675	5	21°334	5°483	6749	5	21°795	10°135	6823	8	8°454	17°774					6953	6	4°427	3°491
6676*	26	22°572	5°246	6750	12	22°975	10°447	6824	5	8°726	17°636					6954	16	6°081	3°535
6677*	15	24°144	5°586	6751	5	23°115	10°228	6825	6	10°944	17°246					6955	8	6°153	3°736
6678	8	25°754	5°586	6752	5	23°966	10°086	6826	5	12°850	17°359					6956	6	7°936	3°054
6679	5	0°740	6°936	6753	6	0°815	11°764	6827	5	13°650	17°717					6957	15	8°695	3°943
6680	8	2°150	6°868	6754	5	8°568	11°265	6828	7	16°155	17°914					6958	7	9°462	3°540
6681	6	2°876	6°433	6755	6	9°425	11°106	6829	6	17°322	17°020					6959	8	11°013	3°204
6682	6	3°082	6°026	6756	10	12°249	11°114	6830	6	21°289	17°305					6960	5	13°979	3°698
6683	7	9°432	6°854	6757*	33	13°242	11°971	6831	5	22°395	17°196					6961	8	17°645	3°835
6684	7	9°755	6°137	6758	5	14°198	11°253	6832	5	22°493	17°816					6962	8	19°270	3°785
6685*	30	9°821	6°067	6759	8	14°227	11°487	6833	6	24°044	17°833					6963	6	19°525	3°584
6686	6	9°838	6°165	6760	10	15°195	11°576	6834	16	4°395	18°186					6964*	28	20°325	3°573
6687	5	10°336	6°726	6761	6	16°124	11°643	6835	14	4°551	18°203					6965	24	20°445	3°434
6688	22	12°393	6°104	6762	6	16°396	11°076	6836	5	5°506	18°905					6966	10	20°716	3°759
6689	8	12°625	6°484	6763	6	21°517	11°195	6837	5	9°685	18°246					6967	6	21°184	3°757
6690	5	13°132	6°855	6764	8	22°491	11°656	6838	5	14°059	18°376					6968	6	21°712	3°953
6691	21	13°546	6°165	6765	5	4°086	12°941	6839	16	18°126	18°638					6969	14	23°073	3°765
6692	8	15°576	6°255	6766	6	6°865	12°515	6840	6	18°796	18°745					6970	10	0°438	4°685
6693	7	16°767	6°474	6767	14	10°384	12°125	6841	11	23°154	18°316					6971	9	1°014	4°805
6694	10	17°114	6°281	6768	8	14°086	12°966	6842	7	3°104	19°586					6972	27	2°350	4°234
6695	7	18°726	6°287	6769	10	22°115	12°215	6843	13	9°624	19°695					6973	14	3°584	4°967
6696	13	18°745	6°833	6770	6	24°375	12°775	6844	8	12°241	19°275					6974	5	9°435	4°076
6697*	40	19°102	6°886	6771	13	24°747	12°380	6845	8	15°064	19°445					6975	19	11°395	4°684
6698	16	19°649	6°108	6772	6	0°429	13°446	6846	12	16°205	19°553					6976	5	11°703	4°322
6699	9	22°988	6°926	6773	14	0°450	13°156	6847	12	19°194	19°114					6977	9	13°716	4°195
6700	12	23°285	6°484	6774	7	1°207	13°124	6848	5	21°877	19°836					6978	9	14°064	4°871
6701	6	25°238	6°125	6775	6	3°922	13°498	6849	20	23°287	19°790					6979	6	15°365	4°669
6702	8	25°653	6°665	6776	5	4°244	13°745	6850	13	24°014	19°972					6980	6	16°652	4°813
6703	5	25°867	6°401	6777	8	4°476	13°880	6851	6	25°826	19°326					6981	11	18°736	4°065
6704	17	5°146	7°975	6778	5	5°367	13°834	6852	6	5°656	20°376					6982	6	21°666	4°847
6705	10	6°612	7°585	6779	7	5°500	13°514	6853	13	6°943	20°154					6983	5	23°794	4°441
6706	5	9°615	7°506	6780	10	8°010	13°415	6854	5	8°688	20°080					6984	7	23°796	4°834
6707	10	9°825	7°925	6781	5	8°120	13°725	6855	6	11°820	20°064					6985*	18	0°127	5°818
6708	6	10°656	7°935	6782	7	8°715	13°457	6856	6	11°870	20°816					6986	10	1°736	5°776
6709	7	15°924	7°517	6783	22	9°254	13°597	6857	5	14°073	20°282					6987	6	4°937	5°599
6710	6	16°654	7°445	6784	6	10°946	13°078	6858*	39	21°290	20°302					6988	6	6°355	5°476
6711	6	22°309	7°655	6785	10	11°074	13°287	6859	6	22°755	20°729					6989	30	7°364	5°875
6712	6	1°526	8°600	6786*	28	11°626	13°036	6860	6	24°458	20°488					6990	7	8°245	5°623
6713	14	7°485	8°575	6787	5	12°486	13°084	6861*	36	1°124	21°375					6991	6	9°936	5°504
6714	12	11°495	8°843	6788	8	17°376	13°874	6862	18	7°244	21°455					6992	20	11°054	5°070
6715	5	11°576	8°806	6789	8	17°544	13°625	6863	9	15°235	21°805					6993	22	13°864	5°684
6716	12	14°136	8°945	6790	8	18°135	13°450	6864	18	16°838	21°633					6994	6	17°566	5°666
6717	7	15°190	8°156	6791	6	18°501	13°602	6865	12	23°404	21°294					6995	7	19°266	5°205
6718	6	15°410	8°077	6792	16	4°906	14°913	6866	16	4°883	22°692					6996	15	20°159	5°055
6719	5	16°554	8°125	6793	7	8°316	14°795	6867	16	5°587	22°123					6997	6	24°015	5°715
6720	23	18°222	8°089	6794*	28	24°585	14°104	6868	5	6°154	22°747					6998	7	24°286	5°427
6721	6	25°087	8°975	6795	6	24°717	14°131	6869	5	10°416	22°322					6999	8	24°618	5°046
6722	8	25°859	8°633	6796	6	1°694	15°396	6870	7	13°877	22°703					7000	14	25°526	5°815
6723	5	0°819	9°409	6797	10	4°153	15°180	6871	6	18°177	22°194					7001	8	1°236	6°326
6724	7	2°895	9°115	6798	7	14°874	15°213	6872	12	19°371	22°207					7002	10	1°665	6°856
6725	14	3°134	9°311	6799	6	16°375	15°114	6873	5	20°490	22°672					7003	6	1°875	6°588
6726	12	3°870	9°965	6800	14	16°875	15°085	6874	12	21°612	22°285					7004*	36	6°317	6°096
6727	10	4°875	9°995	6801	7	17°826	15°465	6875	7	23°292	22°784					7005	18	6°786	6°566
6728	8	6°095	9°																

7009	17	13°537	6°875	7083	21	4°567	9°441	7157	10	22°246	12°705	7231	13	5°127	16°708	7305	6	24°506	19°595
7010	17	14°733	6°815	7084	8	5°635	9°487	7158	6	22°497	12°805	7232	5	6°203	16°306	7306	12	24°648	19°912
7011*	24	15°804	6°885	7085	6	5°679	9°866	7159	6	24°414	12°992	7233	8	7°969	16°657	7307	18	25°676	19°980
7012	5	15°974	6°940	7086	7	8°007	9°295	7160	10	25°656	12°178	7234*	35	8°563	16°616	7308	14	0°374	20°204
7013	8	16°695	6°215	7087	8	8°436	9°885	7161	8	0°546	13°000	7235	5	9°556	16°244	7309	8	0°834	20°706
7014	6	17°638	6°764	7088	5	8°728	9°175	7162	5	1°765	13°946	7236	14	11°672	16°604	7310	12	2°863	20°054
7015	5	17°959	6°575	7089	5	10°827	9°505	7163*	29	3°409	13°404	7237	7	14°195	16°839	7311	6	5°115	20°530
7016	6	18°395	6°285	7090	6	12°666	9°791	7164	18	3°640	13°402	7238*	24	14°554	16°745	7312	24	5°116	20°572
7017	10	18°639	6°255	7091	5	14°108	9°545	7165	6	4°766	13°236	7239	10	16°815	16°343	7313	22	5°534	20°904
7018	16	20°319	6°497	7092	14	14°758	9°616	7166	15	4°932	13°587	7240	6	17°205	16°705	7314*	25	6°894	20°364
7019	7	20°965	6°619	7093	19	19°635	9°322	7167	6	8°062	13°881	7241	12	20°135	16°196	7315	8	7°331	20°546
7020	20	21°100	6°394	7094	5	21°667	9°655	7168	7	8°516	13°066	7242	12	21°079	16°197	7316	17	7°907	20°146
7021	16	21°784	6°845	7095	7	22°624	9°333	7169	20	8°610	13°465	7243	8	21°439	16°128	7317	20	8°035	20°040
7022	18	22°960	6°825	7096	18	23°742	9°013	7170	5	9°065	13°437	7244	7	21°827	16°578	7318	8	8°166	20°994
7023*	36	24°195	6°325	7097	5	24°856	9°874	7171	6	9°565	13°941	7245	12	21°954	16°694	7319	5	12°114	20°821
7024	12	25°609	6°049	7098	6	0°074	10°322	7172	5	9°576	13°690	7246	6	2°320	17°280	7320	8	13°604	20°114
7025	8	25°717	6°910	7099	22	2°665	10°704	7173	6	10°414	13°965	7247	8	3°011	17°515	7321	6	14°281	20°136
7026	5	1°813	7°542	7100	6	2°770	10°694	7174	8	12°816	13°869	7248	5	4°577	17°967	7322	5	14°463	20°907
7027	8	4°585	7°774	7101	16	3°665	10°577	7175	7	16°425	13°646	7249	12	5°935	17°015	7323	5	15°556	20°986
7028	17	4°678	7°666	7102	5	4°766	10°848	7176	7	18°472	13°265	7250	10	6°666	17°023	7324	6	15°746	20°729
7029	8	5°686	7°686	7103	10	5°125	10°365	7177	5	18°974	13°681	7251	6	6°929	17°378	7325	12	16°286	20°763
7030	11	6°582	7°066	7104	5	5°726	10°136	7178	12	19°651	13°541	7252	7	6°935	17°975	7326	7	16°319	20°197
7031	22	7°170	7°371	7105	6	6°024	10°333	7179	7	22°307	13°393	7253	5	7°411	17°740	7327	6	16°454	20°215
7032	8	8°099	7°101	7106	6	6°883	10°325	7180	6	23°866	13°246	7254	6	9°698	17°449	7328	12	17°751	20°890
7033	12	8°594	7°726	7107	8	8°839	10°235	7181	6	24°794	13°735	7255*	60	10°715	17°400	7329	5	17°904	20°108
7034	17	8°715	7°714	7108	6	13°352	10°782	7182	14	25°145	13°186	7256	6	13°555	17°697	7330	5	18°754	20°985
7035	10	8°983	7°696	7109	13	13°685	10°865	7183*	30	0°791	14°320	7257	9	16°074	17°093	7331	6	19°026	20°114
7036	7	9°694	7°609	7110	5	14°265	10°679	7184	5	1°255	14°018	7258	20	17°619	17°816	7332	5	1°825	21°308
7037	8	9°870	7°275	7111	6	20°866	10°475	7185	6	4°032	14°925	7259	5	17°629	17°895	7333	6	3°425	21°735
7038	6	11°678	7°891	7112	6	20°956	10°214	7186	12	4°575	14°073	7260*	51	21°636	17°035	7334	5	5°265	21°895
7039	6	11°763	7°177	7113	5	21°065	10°074	7187	10	5°385	14°607	7261	8	25°566	17°453	7335	10	5°315	21°933
7040	8	11°855	7°036	7114	6	22°436	10°362	7188	8	8°200	14°478	7262*	36	25°598	17°197	7336	5	6°885	21°984
7041	5	12°246	7°897	7115	7	22°646	10°162	7189	8	9°715	14°055	7263	8	0°346	18°065	7337	8	6°950	21°975
7042	6	17°095	7°485	7116	7	22°967	10°887	7190	5	9°734	14°035	7264	6	2°317	18°653	7338	17	8°077	21°585
7043	9	17°405	7°138	7117	8	23°926	10°184	7191	5	10°086	14°251	7265	10	4°915	18°906	7339	5	9°029	21°972
7044	8	17°875	7°037	7118	8	25°756	10°254	7192	18	10°146	14°107	7266	13	5°518	18°259	7340	5	10°278	21°463
7045	6	18°620	7°107	7119	5	2°897	11°761	7193	12	10°155	14°654	7267	6	8°051	18°436	7341	7	12°655	21°035
7046	16	18°837	7°007	7120	6	7°014	11°486	7194	5	11°309	14°938	7268	5	8°151	18°773	7342	18	14°896	21°783
7047*	59	19°502	7°776	7121	12	7°514	11°866	7195	11	11°344	14°334	7269	5	8°319	18°991	7343	8	15°335	21°957
7048	23	20°774	7°675	7122	17	11°788	11°673	7196	10	12°289	14°376	7270	48	8°966	18°237	7344	9	17°494	21°353
7049	5	21°102	7°566	7123	19	12°620	11°184	7197	8	13°076	14°085	7271*	52	8°975	18°257	7345	6	18°033	21°931
7050	12	22°291	7°995	7124	9	13°134	11°058	7198	6	14°376	14°698	7272	11	12°236	18°425	7346	10	18°202	21°045
7051	12	22°802	7°238	7125	6	15°104	11°774	7199	8	15°694	14°168	7273	18	12°920	18°537	7347	14	18°244	21°324
7052	6	23°286	7°856	7126	7	15°138	11°485	7200	8	16°125	14°505	7274	8	16°035	18°157	7348	11	18°718	21°966
7053	10	1°921	8°817	7127	9	18°215	11°855	7201	7	17°863	14°096	7275	18	17°036	18°185	7349	5	20°246	21°384
7054	8	2°805	8°134	7128	15	18°735	11°084	7202	12	19°279	14°936	7276	7	18°505	18°402	7350	6	21°293	21°636
7055	6	3°796	8°916	7129*	38	18°882	11°473	7203	15	20°580	14°017	7277	6	18°633	18°637	7351	12	21°484	21°683
7056	8	3°802	8°433	7130	8	19°394	11°864	7204	10	21°036	14°506	7278	7	18°752	18°630	7352	8	24°606	21°094
7057	16	5°046	8°494	7131	7	19°595	11°012	7205	7	23°914	14°225	7279	5	18°925	18°471	7353	10	0°835	22°906
7058*	34	5°075	8°467	7132	10	20°066	11°397	7206	8	25°934	14°245	7280	6	19°284	18°985	7354	6	9°477	22°705
7059	7	9°595	8°725	7133	7	20°736	11°677	7207	16	1°516	15°510	7281	6	20°035	18°846	7355	7	10°247	22°815
7060	8	14°875	8°606	7134	13	21°442	11°066	7208	9	2°295	15°212	7282	8	20°124	18°054	7356	16	11°304	22°575
7061	6	16°416	8°610	7135*	44	21°875	11°436	7209	6	3°145	15°534	7283	8	20°877	18°355	7357	6	12°322	22°866
7062	15	18°206	8°973	7136	5	21°955	11°925	7210	12	8°774	15°317	7284	10	21°165	18°425	7358	5	16°945	22°656
7063	7	18°786	8°251	7137	10	22°196	11°156	7211*	31	10°663	15°405	7285	10	21°325	18°087	7359	6	18°565	22°237
7064	7	18°906	8°459	7138	10	23°575	11°713	7212	8	10°715	15°391	7286	20	21°971	18°225	7360	12	18°855	22°285
7065	6	19°342	8°622	7139	11	24°466	11°894	7213	12	13°695	15°225	7287*	33	22°903	18°046	7361	6	19°830	22°064
7066	7	19°764	8°118	7140	15	0°906	12°595	7214	15	14°600	15°492	7288	13	23°828	18°994	7362	6	19°852	22°809
7067*	54	19°775	8°087	7141	5	1°185	12°634	7215	10	15°569	15°865	7289	8	2°169	19°511	7363	6	20°115	22°538
7068	15	19°915	8°870	7142	7	4°424	12°611	7216	12	16°162	15°095	7290	6	3°675	19°082	7364	18	20°443	22°821
7069	6	20°225	8°376	7143	6	5°495	12°073	7217	6	16°221	15°203	7291	8	4°955	19°857	7365	11	21°279	22°455
7070	18	20°590	8°317	7144	12	6°084	12°405	7218	24	18°046	15°804	7292	12	7°445	19°096	7366	6	21°281	22°932
7071	8	21°493	8°643	7145	5	6°912	12°234	7219	7	20°528	15°898	7293	12	7°894	19°827	7367	5	22°066	22°907
7072	23	22°317	8°309	7146	18	7°294	12°870	7220	9	22°255	15°195	7294	6	8°330	19°855	7368	16	23°826	22°169
7073	14	23°077	8°796	7147	5	10°755	12°533	7221	9	23°553	15°457	7295	26	11°082	19				

7379	37	14°165	23°923	7521	10	16°675	1°416	7595	12	9°915	7°127	7669	27	9°518	13°955	7743	9	15°342	20°204
7380	16	18°428	23°044	7522	26	20°965	1°642	7596	29	10°384	7°529	7670	16	10°666	13°574	7744	16	16°136	20°697
7381	6	21°183	23°264	7523	29	22°181	1°386	7597	27	11°174	7°925	7671	13	11°496	13°460	7745	16	17°968	20°374
7382	17	21°903	23°044	7524	40	0°904	2°910	7598	9	12°406	7°402	7672	26	15°213	13°316	7746	12	5°402	21°390
7383	19	22°525	23°322	7525	11	1°756	2°414	7599	35	14°915	7°505	7673	10	15°424	13°157	7747	9	9°486	21°886
7384	28	22°585	23°986	7526	20	6°302	2°165	7600	10	16°276	7°902	7674	20	16°920	13°497	7748	11	10°196	21°287
7385	8	2°107	24°407	7527	9	7°055	2°005	7601	24	23°155	7°014	7675*	26	20°496	13°582	7749	9	10°976	21°554
7386	5	4°296	24°071	7528	9	7°115	2°154	7602	9	1°826	8°953	7676	14	20°915	13°026	7750	10	13°436	21°869
7387	8	4°555	24°414	7529	12	8°632	2°296	7603	17	5°278	8°101	7677	18	21°490	13°795	7751	10	15°005	21°120
7388	5	4°715	24°496	7530	11	8°758	2°459	7604	12	5°986	8°394	7678	14	21°505	13°404	7752	9	15°583	21°157
7389	6	6°355	24°734	7531	18	10°882	2°725	7605	11	7°320	8°859	7679	23	21°906	13°674	7753	19	18°255	21°296
7390	12	8°573	24°064	7532	18	12°055	2°872	7606	9	9°768	8°572	7680	19	23°681	13°280	7754	11	21°175	21°858
7391	5	14°099	24°748	7533	30	12°066	2°174	7607	9	10°986	8°347	7681	12	24°168	13°357	7755	10	21°884	21°213
7392	6	15°583	24°245	7534	11	12°396	2°003	7608	9	11°678	8°046	7682	9	2°167	14°448	7756	16	22°259	21°103
7393	22	17°937	24°951	7535	10	12°674	2°395	7609	9	15°215	8°859	7683	10	6°523	14°828	7757	14	23°555	21°018
7394	5	18°156	24°446	7536*	27	13°360	2°840	7610*	37	15°233	8°915	7684*	42	7°412	14°737	7758	11	25°482	21°676
7395	10	18°855	24°096	7537*	21	13°795	2°748	7611	18	16°171	8°785	7685	9	8°714	14°905	7759	20	0°217	22°415
7396	17	19°056	24°755	7538	9	14°736	2°855	7612	11	17°529	8°678	7686	15	9°821	14°861	7760	26	3°600	22°813
7397	6	19°369	24°285	7539*	25	14°935	2°745	7613	14	23°835	8°245	7687	27	10°574	14°531	7761	9	4°342	22°369
7398	6	2°265	25°114	7540	9	18°689	2°852	7614	11	1°174	9°171	7688	10	14°485	14°797	7762	12	8°320	22°741
7399	5	3°235	25°486	7541	12	19°236	2°006	7615	16	4°715	9°065	7689	12	16°862	14°664	7763	12	11°775	22°245
7400	15	3°894	25°873	7542	19	21°725	2°920	7616*	42	7°055	9°976	7690	11	18°946	14°307	7764	14	11°905	22°758
7401	5	4°600	25°274	7543	10	23°556	2°162	7617	14	9°097	9°422	7691	17	20°616	14°534	7765	9	12°545	22°652
7402	6	5°579	25°076	7544	9	11°034	3°606	7618	10	11°300	9°522	7692	13	21°993	14°981	7766	17	12°558	22°749
7403	7	5°653	25°505	7545	20	15°901	3°705	7619	9	11°452	9°955	7693	9	24°090	14°095	7767	28	12°956	22°467
7404	8	10°004	25°124	7546*	26	16°050	3°987	7620	16	12°035	9°571	7694	11	1°227	15°600	7768	10	22°319	22°976
7405	13	11°258	25°633	7547*	33	17°702	3°475	7621	9	12°084	9°730	7695	18	5°818	15°858	7769	13	22°448	22°532
7406	14	11°762	25°211	7548	10	2°821	4°468	7622	9	13°268	9°975	7696	32	13°385	15°354	7770	15	23°925	22°983
7407	7	12°258	25°287	7549	10	2°888	4°066	7623*	40	15°150	9°358	7697	17	13°689	15°614	7771	13	4°365	23°615
7408	6	19°685	25°255	7550	18	4°875	4°274	7624	18	15°180	9°487	7698	9	14°507	15°870	7772	22	5°587	23°624
7409	8	25°132	25°611	7551	18	7°806	4°381	7625*	46	18°658	9°578	7699	10	14°696	15°463	7773	24	5°635	23°334
				7552	10	8°785	4°629	7626*	31	19°434	9°123	7700	18	16°667	15°310	7774	15	6°724	23°365
				7553	14	10°315	4°103	7627	19	21°680	9°770	7701	10	3°671	16°434	7775	10	6°839	23°425
				7554	14	11°865	4°865	7628	14	21°985	9°585	7702	12	3°885	16°747	7776	16	9°355	23°505
				7555*	32	13°225	4°383	7629	21	22°801	9°359	7703*	44	4°635	16°386	7777	13	18°601	23°196
				7556	11	13°226	4°327	7630	10	1°916	10°457	7704	11	5°326	16°894	7778	18	18°606	23°585
				7557	10	16°432	4°935	7631	10	4°927	10°702	7705	9	7°403	16°936	7779	10	18°677	23°094
				7558	11	20°863	4°708	7632	10	9°686	10°284	7706*	40	8°348	16°895	7780	9	19°438	23°994
				7559	10	23°512	4°540	7633	9	10°346	10°616	7707	9	10°541	16°702	7781	10	22°120	23°117
				7560	32	25°746	4°865	7634	9	15°065	10°743	7708	9	22°035	16°056	7782	32	22°837	23°055
				7561	14	2°327	5°276	7635*	38	16°361	10°785	7709	11	22°486	16°608	7783	13	7°979	24°801
				7562	26	2°470	5°115	7636	24	19°005	10°856	7710*	34	23°948	16°564	7784	12	9°404	24°501
				7563	16	2°777	5°441	7637*	45	19°428	10°973	7711	12	1°867	17°662	7785	16	11°275	24°944
				7564	11	3°674	5°477	7638	12	24°445	10°068	7712*	42	1°894	17°404	7786	11	13°485	24°685
				7565*	36	5°119	5°221	7639	11	24°453	10°588	7713	28	3°576	17°197	7787	16	13°857	24°861
				7566	12	6°223	5°995	7640	9	2°624	11°186	7714	10	4°177	17°383	7788	14	16°366	24°072
				7567	12	6°935	5°823	7641	15	3°085	11°724	7715	10	10°556	17°167	7789	14	18°265	24°722
				7568	9	6°970	5°995	7642	16	6°434	11°124	7716	20	14°273	17°217	7790*	12	20°637	24°556
				7569	10	8°835	5°183	7643	14	10°936	11°594	7717	19	16°333	17°476	7791	25	25°145	24°412
				7570	10	11°246	5°365	7644	14	11°126	11°026	7718	12	20°305	17°903	7792	10	3°752	25°763
				7571	26	13°896	5°231	7645	25	18°965	11°884	7719	10	22°918	17°764	7793*	28	3°794	25°942
				7572	10	16°115	5°923	7646	19	19°356	11°705	7720*	34	23°696	17°495	7794	25	13°405	25°881
				7573	12	21°767	5°485	7647	9	22°254	11°245	7721	12	24°522	17°315	7795	15	17°499	25°287
				7574*	42	0°273	6°564	7648*	45	23°073	11°489	7722	10	3°575	18°330	7796	11	20°833	25°231
				7575	19	1°598	6°025	7649*	42	25°218	11°343	7723*	29	5°465	18°637	7797	14	23°685	25°990
				7576	16	1°683	6°258	7650	12	0°655	12°125	7724	13	12°832	18°563				
				7577	10	4°682	6°142	7651	14	1°854	12°387	7725	9	14°670	18°342				
				7578	12	4°687	6°063	7652	15	3°559	12°360	7726	14	23°783	18°847				
				7579	10	5°950	6°339	7653	12	3°980	12°105	7727	15	0°160	19°234				
				7580	12	6°816	6°193	7654	33	8°740	12°844	7728	19	4°730	19°701				
				7581*	33	9°065	6°994	7655	30	13°902	12°297	7729	9	7°522	19°258				
				7582	12	9°617	6°156	7656	12	15°936	12°327	7730	13	10°245	19°926				
				7583	14	14°581	6°235	7657	10	18°326	12°778	7731	12	14°407	19°694				
				7584	12	19°142	6°855	7658	27	19°768	12°917	7732	11	16°148	19°936				
				7585	13	22°796	6°166	7659	10	20°175	12°928	7733	11	19°896	19°510				
				7586	25	25°255	6°195	7660	9	21°403	12°706	7734	9	24°775	19°196				
				7587	9	1°806	7°116	7661	9	22°071	12°200	7735	18	25°846	19°434				
				7588	9	3°009	7°302	7662	14	22°136	12°817	7736	12	0°995	20°143				
				7589	11	3°881	7°962	7663	11	23°550	12°085	7737	20	2°025	20°185				
				7590	11	4°149	7°461	7664*	20	24°723	12°401	7738	24	3°417	20°364				
				7591	26	4°774	7												

R. A. 3^h 54^m

Plate 1490; 1900 Jan. 17.

Provisional Constants.

A	B	C
-00010	+01109	-4202

D	E	F
-01111	-00027	-0809

Mag. = 15.0 - 1.02√d

No.	d	x	y
7801	6	1.800	0.716
7802	5	3.622	0.766
7803	6	4.632	0.154
7804	14	15.385	0.344
7805	5	17.049	0.957
7806	22	24.035	0.169
7807*	25	3.459	1.008
7808	16	5.442	1.898
7809	8	6.254	1.327
7810	12	6.595	1.915
7811	8	7.651	1.395
7812	8	13.343	1.767
7813	5	14.375	1.156
7814	5	15.030	1.348
7815	12	16.226	1.495
7816	6	17.230	1.130
7817	10	18.768	1.344
7818	11	20.283	1.160
7819*	29	2.573	2.180
7820	8	2.613	2.620
7821	7	5.756	2.543
7822	12	12.139	2.621
7823	6	12.740	2.028
7824	11	13.736	2.494
7825	12	14.629	2.456
7826	7	14.634	2.115
7827	6	15.206	2.695
7828	7	17.574	2.701
7829	7	18.655	2.200
7830	16	21.057	2.054
7831	7	21.691	2.096
7832	5	23.200	2.451
7833	7	23.577	2.210
7834	19	8.881	3.247
7835	8	9.704	3.895
7836	10	12.440	3.550
7837	7	13.290	3.040
7838	10	14.500	3.404
7839	12	15.914	3.706
7840	6	16.125	3.562
7841	18	19.650	3.594
7842	6	22.095	3.915
7843	5	24.587	3.298
7844	24	25.369	3.955
7845	6	2.995	4.937
7846	6	10.275	4.406
7847	5	10.486	4.978
7848	8	11.115	4.816
7849	16	12.517	4.023
7850*	28	12.546	4.025
7851	5	12.606	4.769
7852	5	12.693	4.657
7853	10	12.784	4.875
7854	20	12.840	4.534
7855	6	13.395	4.054
7856	5	14.587	4.316

7857*	32	16.090	4.738	7931	6	20.861	9.272	8005	6	2.994	15.361
7858	5	18.042	4.905	7932	6	23.144	9.435	8006	5	11.160	15.679
7859	7	18.590	4.853	7933	8	0.454	10.285	8007	5	11.622	15.158
7860	12	18.935	4.386	7934	6	0.474	10.805	8008	7	11.828	15.294
7861	8	19.556	4.856	7935	12	4.746	10.448	8009	6	13.985	15.159
7862	9	20.401	4.598	7936*	28	6.117	10.573	8010*	56	16.108	15.390
7863	5	24.136	4.504	7937	5	6.429	10.173	8011	7	18.190	15.282
7864	28	1.655	5.054	7938	8	11.619	10.094	8012	8	19.405	15.335
7865	6	3.656	5.726	7939	6	13.656	10.976	8013	12	21.189	15.127
7866	5	6.796	5.825	7940	10	14.925	10.197	8014	16	21.522	15.851
7867	14	8.414	5.315	7941	6	18.017	10.814	8015*	25	0.083	16.785
7868	10	10.317	5.287	7942	20	18.250	10.929	8016	6	1.175	16.804
7869	5	12.101	5.573	7943*	42	18.284	10.883	8017	8	4.714	16.979
7870	5	13.539	5.393	7944	5	18.415	10.315	8018	6	7.357	16.840
7871	12	13.984	5.316	7945	7	18.840	10.104	8019	7	7.980	16.505
7872	17	15.119	5.697	7946	8	20.154	10.995	8020	7	10.052	16.310
7873	7	18.704	5.807	7947	7	21.570	10.995	8021	18	10.619	16.685
7874*	30	20.288	5.541	7948	12	21.614	10.835	8022	8	13.395	16.965
7875	13	21.787	5.835	7949*	46	22.666	10.899	8023	5	13.862	16.447
7876	18	22.835	5.746	7950*	34	1.252	11.541	8024	10	13.896	16.358
7877*	34	22.847	5.895	7951	8	4.988	11.142	8025	5	14.565	16.350
7878	24	24.073	5.791	7952	10	8.747	11.976	8026	5	16.673	16.158
7879	9	24.359	5.444	7953	11	9.768	11.132	8027	10	17.185	16.696
7880	6	24.526	5.620	7954	9	12.227	11.317	8028	18	20.699	16.460
7881	22	1.189	6.394	7955	9	12.646	11.152	8029	8	0.671	17.526
7882	7	3.286	6.582	7956	5	15.247	11.694	8030	5	2.733	17.266
7883*	14	4.347	6.423	7957	12	15.572	11.474	8031	10	2.883	17.425
7884	6	6.112	6.046	7958	6	15.707	11.281	8032	6	3.711	17.102
7885	12	6.842	6.816	7959	8	16.815	11.430	8033	6	3.977	17.594
7886*	10	15.921	6.536	7960	5	17.636	11.352	8034	5	7.265	17.286
7887	5	17.058	6.207	7961	6	18.166	11.965	8035	8	10.909	17.803
7888	5	17.555	6.565	7962	15	19.755	11.960	8036	8	11.633	17.693
7889	8	22.128	6.886	7963	8	20.325	11.162	8037	7	12.747	17.084
7890	12	23.677	6.622	7964	6	22.659	11.055	8038	6	14.124	17.584
7891	5	23.719	6.709	7965	6	23.600	11.243	8039	9	15.121	17.803
7892	10	23.966	6.479	7966*	14	0.774	12.608	8040	7	17.743	17.085
7893	5	25.736	6.783	7967*	14	1.785	12.567	8041	9	18.795	17.045
7894*	18	2.588	7.145	7968*	6	3.468	12.062	8042	12	19.777	17.684
7895	6	4.288	7.604	7969*	18	3.600	12.391	8043	10	21.918	17.205
7896	8	4.807	7.581	7970	10	3.806	12.415	8044*	38	21.948	17.322
7897	8	5.401	7.972	7971	10	5.540	12.023	8045	6	24.587	17.835
7898	6	7.905	7.396	7972	11	15.500	12.810	8046	8	25.453	17.550
7899	7	9.037	7.235	7973	22	20.130	12.724	8047	8	6.090	18.541
7900	10	9.550	7.946	7974	6	24.321	12.979	8048	6	7.776	18.440
7901	5	10.475	7.516	7975	6	24.825	12.110	8049	5	7.836	18.490
7902	6	12.100	7.185	7976	9	0.242	13.575	8050	12	9.171	18.298
7903	5	13.275	7.631	7977	14	3.416	13.124	8051	10	9.763	18.616
7904	5	14.726	7.936	7978	5	4.826	13.890	8052	5	11.148	18.204
7905	8	14.820	7.383	7979	6	5.191	13.282	8053	8	12.725	18.941
7906	6	18.458	7.296	7980	6	5.676	13.044	8054	6	17.366	18.415
7907	6	19.252	7.840	7981	9	5.711	13.704	8055	7	19.475	18.126
7908	8	21.294	7.115	7982	8	5.949	13.766	8056	6	0.955	19.406
7909	6	5.546	8.580	7983	10	6.786	13.895	8057	12	2.035	19.619
7910	19	7.710	8.734	7984	5	11.134	13.902	8058	8	8.836	19.877
7911*	20	7.713	8.753	7985	5	11.783	13.366	8059	5	9.672	19.885
7912	7	12.478	8.375	7986	9	11.865	13.579	8060	8	10.052	19.967
7913	8	13.255	8.760	7987	10	18.520	13.736	8061*	21	11.724	19.027
7914	6	16.399	8.562	7988	7	19.335	13.592	8062	8	12.585	19.114
7915	6	18.355	8.934	7989	8	19.930	13.176	8063	18	13.163	19.575
7916	6	18.581	8.909	7990	11	25.874	13.655	8064	9	16.023	19.182
7917	11	20.548	8.975	7991	6	0.177	14.312	8065	10	20.390	19.652
7918	6	21.784	8.576	7992	14	2.296	14.477	8066	6	3.429	20.576
7919	8	22.598	8.332	7993	6	6.598	14.024	8067	7	5.626	20.263
7920	20	25.215	8.719	7994	11	7.391	14.972	8068	13	5.730	20.347
7921	7	4.141	9.146	7995	5	8.005	14.265	8069	7	6.658	20.445
7922	8	6.165	9.206	7996	11	8.836	14.730	8070	6	8.370	20.211
7923	20	6.214	9.027	7997	5	9.925	14.204	8071	10	8.775	20.026
7924	10	7.725	9.555	7998	6	12.648	14.545	8072	7	10.605	20.894
7925	9	9.509	9.165	7999*	18	15.571	14.916	8073	6	14.013	20.577
7926	8	13.005	9.417	8000	10	19.977	14.583	8074	8	15.409	20.147
7927	6	14.552	9.471	8001*	32	20.198	14.844	8075	6	18.294	20.026
7928	7	14.765	9.183	8002	6	22.410	14.844	8076	7	1.714	21.867
7929	18	18.108	9.847	8003*	20	22.469	14.235	8077*	24	2.696	21.413
7930	14	19.718	9.926	8004	6	23.325	14.747	8078	8	6.753	21.566

8220	5	23'394	2'844	8294	6	11'444	8'375	8368	5	4'543	22'185	8435	8	19'965	9'855	R. A. 4^h 21^m Plate 1329; 1899 Feb. 25. <i>Provisional Constants.</i> A B C -00008 +00745 -3339 D E F -00763 -00011 -0754 Mag. = 14.7 - 1.02√d
8221	10	25'628	2'375	8295*	14	11'486	8'883	8369	6	11'251	22'631	8436	5	11'796	10'175	
8222	5	25'685	2'026	8296	17	14'046	8'261	8370	5	17'856	22'532	8437*	28	13'518	10'888	
8223	5	0'678	3'906	8297	25	18'345	8'735	8371	8	22'185	22'066	8438	6	25'388	10'437	
8224*	39	5'835	3'837	8298	8	21'460	8'137	8372	6	3'827	23'417	8439	13	2'307	12'134	
8225*	39	6'291	3'807	8299	8	22'808	8'378	8373	19	9'783	23'391	8440	19	22'666	12'982	
8226	5	7'050	3'949	8300*	18	3'688	9'297	8374	8	11'677	23'165	8441	7	22'945	12'847	
8227*	38	7'484	3'677	8301	12	4'972	9'960	8375*	40	11'985	23'845	8442	8	24'007	12'217	
8228	10	20'536	3'509	8302	9	6'655	9'995	8376	14	12'555	23'494	8443	11	18'626	13'184	
8229*	10	25'275	3'135	8303	5	7'098	9'423	8377	5	17'838	23'629	8444*	32	22'825	13'323	
8230	6	25'516	3'304	8304	12	7'902	9'045	8378*	30	23'811	23'119	8445*	19	21'851	14'677	No. d x y 8601* 28 1'897 0'895 8602 20 3'515 0'623 8603 8 4'305 0'090 8604 12 22'467 0'535 8605 5 22'815 0'310 8606* 40 19'479 1'486 8607 8 3'300 3'463 8608 19 18'296 3'594 8609* 76 18'436 3'000 8610 10 21'349 3'350 8611 6 9'046 4'404 8612 9 10'257 4'348 8613 19 21'854 4'154 8614 6 22'270 4'184 8615 5 7'622 5'018 8616 12 9'518 5'515 8617 14 16'946 5'725 8618 7 17'515 5'423 8619 10 10'732 6'586 8620 7 3'454 7'805 8621* 56 15'672 7'486 8622 5 17'325 7'056 8623 6 21'275 7'865 8624 6 24'427 7'482 8625 10 24'525 7'531 8626 11 4'052 8'005 8627* 12 10'402 8'255 8628 10 13'375 8'565 8629 6 14'267 8'026 8630 6 9'927 9'077 8631 8 13'546 9'847 8632 7 17'255 9'681 8633 8 23'924 9'706 8634 6 24'996 9'923 8635 8 1'466 10'856 8636 8 16'777 10'978 8637 6 24'878 10'628 8638 8 2'845 11'626 8639 6 3'165 11'019 8640* 70 20'985 11'724 8641 8 22'089 11'589 8642 8 0'116 12'660 8643* 44 3'557 12'396 8644 5 12'729 12'028 8645 6 5'427 13'996 8646 21 8'905 13'474 8647 7 12'050 13'842 8648 6 16'972 13'668 8649* 46 1'425 14'916 8650 18 6'445 14'694 8651 6 14'788 14'520 8652 8 15'255 14'485 8653 6 19'917 14'700 8654 7 0'924 15'760 8655 10 5'925 15'356 8656 8 5'944 15'146
8231	31	1'445	4'105	8305	14	8'226	9'533	8379	6	1'118	24'905	8446	6	22'877	14'696	
8232*	48	2'237	4'876	8306	5	8'364	9'306	8380	10	5'782	25'865	8447*	46	25'277	14'499	
8233	8	2'616	4'977	8307	6	8'825	9'605	8381	7	7'629	25'253	8448	11	13'682	15'109	
8234	10	2'793	4'604	8308	7	11'576	9'562	8382	9	15'018	25'581	8449	14	19'705	15'603	
8235	5	4'278	4'786	8309	5	3'293	10'693	8383	6	16'075	25'623	8450	10	22'745	15'015	
8236*	93	5'966	4'756	8310	9	5'223	10'526	8384	24	16'835	25'037	8451	6	24'765	15'335	
8237	12	6'166	4'391	8311	6	6'595	10'285					8452	10	25'486	15'795	
8238	8	6'402	4'361	8312	10	14'478	10'311					8453	6	18'375	16'525	
8239	5	6'475	4'775	8313	5	16'585	10'576					8454	10	18'495	16'953	
8240	8	6'654	4'239	8314	14	18'025	10'649					8455	6	23'694	16'683	R. A. 4^h 12^m Plate 1322; 1899 Feb. 24. <i>Provisional Constants.</i> A B C -00012 +00932 -3041 D E F -00936 -00024 -2767 Mag. = 14.4 - 1.02√d
8241	7	7'206	4'055	8315	7	20'756	10'570					8456	13	24'246	16'367	
8242	8	8'418	4'461	8316	12	20'757	10'542					8457	26	19'028	17'494	
8243	6	9'516	4'157	8317	10	23'055	10'117					8458	10	3'635	18'433	
8244	8	9'674	4'824	8318	11	5'276	11'615					8459	14	18'575	18'515	
8245	17	12'341	4'443	8319	6	1'004	12'269					8460	8	20'925	18'196	
8246	5	15'125	4'131	8320	8	4'597	12'626					8461	8	22'373	18'207	
8247	17	16'305	4'415	8321	5	6'607	12'777					8462	28	25'914	18'440	
8248	17	21'250	4'629	8322	13	11'465	12'537					8463*	26	18'146	19'442	
8249	5	22'188	4'816	8323	6	0'514	13'144					8464	6	18'645	19'980	
8250	28	0'171	5'958	8324	10	2'074	13'798					8465	5	22'162	19'055	No. d x y 8601* 28 1'897 0'895 8602 20 3'515 0'623 8603 8 4'305 0'090 8604 12 22'467 0'535 8605 5 22'815 0'310 8606* 40 19'479 1'486 8607 8 3'300 3'463 8608 19 18'296 3'594 8609* 76 18'436 3'000 8610 10 21'349 3'350 8611 6 9'046 4'404 8612 9 10'257 4'348 8613 19 21'854 4'154 8614 6 22'270 4'184 8615 5 7'622 5'018 8616 12 9'518 5'515 8617 14 16'946 5'725 8618 7 17'515 5'423 8619 10 10'732 6'586 8620 7 3'454 7'805 8621* 56 15'672 7'486 8622 5 17'325 7'056 8623 6 21'275 7'865 8624 6 24'427 7'482 8625 10 24'525 7'531 8626 11 4'052 8'005 8627* 12 10'402 8'255 8628 10 13'375 8'565 8629 6 14'267 8'026 8630 6 9'927 9'077 8631 8 13'546 9'847 8632 7 17'255 9'681 8633 8 23'924 9'706 8634 6 24'996 9'923 8635 8 1'466 10'856 8636 8 16'777 10'978 8637 6 24'878 10'628 8638 8 2'845 11'626 8639 6 3'165 11'019 8640* 70 20'985 11'724 8641 8 22'089 11'589 8642 8 0'116 12'660 8643* 44 3'557 12'396 8644 5 12'729 12'028 8645 6 5'427 13'996 8646 21 8'905 13'474 8647 7 12'050 13'842 8648 6 16'972 13'668 8649* 46 1'425 14'916 8650 18 6'445 14'694 8651 6 14'788 14'520 8652 8 15'255 14'485 8653 6 19'917 14'700 8654 7 0'924 15'760 8655 10 5'925 15'356 8656 8 5'944 15'146
8251	8	0'451	5'609	8325	13	8'473	13'157					8466	10	23'224	19'627	
8252	19	3'574	5'277	8326*	36	3'465	14'289					8467	6	25'619	19'181	
8253	7	4'227	5'687	8327	16	3'636	14'351					8468	6	3'135	20'075	
8254	12	7'444	5'926	8328	9	4'285	14'746					8469*	47	19'215	20'376	
8255	6	11'550	5'506	8329*	23	5'400	14'425					8470	5	23'287	20'545	
8256	13	13'196	5'137	8330	5	6'472	14'321					8471	14	3'695	21'173	
8257	11	14'263	5'363	8331	6	6'755	14'567					8472	5	15'747	21'705	
8258	6	14'986	5'404	8332	5	6'795	14'737					8473	8	23'244	21'886	
8259	10	15'245	5'395	8333	5	10'045	14'242					8474	22	23'426	21'294	
8260	8	16'909	5'575	8334	6	12'578	14'625					8475	7	15'625	22'947	No. d x y 8601* 28 1'897 0'895 8602 20 3'515 0'623 8603 8 4'305 0'090 8604 12 22'467 0'535 8605 5 22'815 0'310 8606* 40 19'479 1'486 8607 8 3'300 3'463 8608 19 18'296 3'594 8609* 76 18'436 3'000 8610 10 21'349 3'350 8611 6 9'046 4'404 8612 9 10'257 4'348 8613 19 21'854 4'154 8614 6 22'270 4'184 8615 5 7'622 5'018 8616 12 9'518 5'515 8617 14 16'946 5'725 8618 7 17'515 5'423 8619 10 10'732 6'586 8620 7 3'454 7'805 8621* 56 15'672 7'486 8622 5 17'325 7'056 8623 6 21'275 7'865 8624 6 24'427 7'482 8625 10 24'525 7'531 8626 11 4'052 8'005 8627* 12 10'402 8'255 8628 10 13'375 8'565 8629 6 14'267 8'026 8630 6 9'927 9'077 8631 8 13'546 9'847 8632 7 17'255 9'681 8633 8 23'924 9'706 8634 6 24'996 9'923 8635 8 1'466 10'856 8636 8 16'777 10'978 8637 6 24'878 10'628 8638 8 2'845 11'626 8639 6 3'165 11'019 8640* 70 20'985 11'724 8641 8 22'089 11'589 8642 8 0'116 12'660 8643* 44 3'557 12'396 8644 5 12'729 12'028 8645 6 5'427 13'996 8646 21 8'905 13'474 8647 7 12'050 13'842 8648 6 16'972 13'668 8649* 46 1'425 14'916 8650 18 6'445 14'694 8651 6 14'788 14'520 8652 8 15'255 14'485 8653 6 19'917 14'700 8654 7 0'924 15'760 8655 10 5'925 15'356 8656 8 5'944 15'146
8261	14	18'233	5'125	8335	5	13'718	14'157					8476	5	18'810	22'028	
8262	8	18'494	5'595	8336*	34	21'135	14'833					8477	9	22'625	22'806	
8263	12	19'041	5'274	8337	8	2'904	15'557					8478*	26	25'765	22'057	
8264	9	0'075	6'046	8338	6	22'815	15'493					8479	6	25'905	22'213	
8265	5	1'846	6'928	8339	10	2'665	16'975					8480*	28	0'275	23'180	
8266	14	4'907	6'416	8340	16	4'122	16'394					8481	26	7'555	23'107	
8267	6	5'089	6'805	8341*	19	4'614	16'111					8482	14	8'144	23'452	
8268	7	5'568	6'947	8342	20	7'342	16'266					8483	6	10'382	23'606	
8269	6	14'750	6'016	8343	20	8'285	16'664					8484	10	13'727	23'046	
8270	14	16'413	6'336	8344	6	12'754	16'432					8485	8	14'255	23'059	No. d x y 8601* 28 1'897 0'895 8602 20 3'515 0'623 8603 8 4'305 0'090 8604 12 22'467 0'535 8605 5 22'815 0'310 8606* 40 19'479 1'486 8607 8 3'300 3'463 8608 19 18'296 3'594 8609* 76 18'436 3'000 8610 10 21'349 3'350 8611 6 9'046 4'404

8657	15	8.375	15.510	8731	5	8.168	25.186	8841	25	3.707	7.256	8915	5	16.025	15.881
8658	10	12.172	15.686	8732	5	8.279	25.126	8842	8	13.463	7.464	8916	5	18.366	15.272
8659	6	18.550	15.619	8733	5	8.332	25.519	8843	6	15.139	7.765	8917	12	24.866	15.789
8660	11	0.425	16.799	8734	5	8.756	25.565	8844	19	15.876	7.495	8918	13	11.394	16.891
8661	10	1.656	16.214	8735	7	8.935	25.404	8845	6	17.495	7.386	8919	12	12.024	16.530
8662	6	7.158	16.926	8736	29	10.926	25.278	8846	6	20.008	7.455	8920	7	13.419	16.884
8663	6	10.985	16.280	8737	12	11.653	25.765	8847	7	20.864	7.340	8921	10	16.259	16.627
8664	8	12.246	16.425	8738	6	13.928	25.239	8848	26	21.104	7.587	8922	18	21.477	16.020
8665	6	16.030	16.597	8739	12	14.125	25.599	8849	6	21.496	7.067	8923	12	22.443	16.993
8666	6	17.512	16.596	8740	26	23.047	25.795	8850	8	21.699	7.282	8924	6	25.085	16.202
8667	12	21.666	16.354	8741	9	23.773	25.881	8851	7	21.764	7.794	8925	8	5.214	17.664
8668	5	7.752	17.629					8852	6	22.495	7.354	8926	6	10.410	17.549
8669	8	17.315	17.764					8853	7	23.301	7.335	8927	8	13.303	17.075
8670	6	2.124	18.886					8854	20	18.126	8.952	8928	25	15.125	17.095
8671	27	2.124	18.850					8855	6	21.964	8.455	8929	6	17.449	17.477
8672*	21	3.840	18.943					8856	12	23.360	8.125	8930	7	21.246	17.388
8673	6	5.482	18.016					8857*	18	24.364	8.256	8931	5	23.168	17.248
8674	6	8.005	18.862					8858*	19	25.533	8.576	8932	5	25.924	17.993
8675	11	15.688	18.265					8859	6	0.017	9.918	8933	10	25.976	17.224
8676	24	19.017	18.475					8860	12	9.888	9.649	8934	6	10.883	18.077
8677	10	20.385	18.674					8861	11	13.771	9.886	8935	7	11.447	18.413
8678	8	1.840	19.598					8862*	63	15.212	9.476	8936	8	12.171	18.144
8679	6	6.071	19.039					8863	5	15.445	9.068	8937	8	13.086	18.175
8680	5	6.388	19.579					8864	5	16.525	9.416	8938	6	16.404	18.488
8681	7	15.065	19.028					8865	6	19.245	9.560	8939*	46	18.666	18.997
8682	5	15.198	19.760					8866	6	20.249	9.979	8940	14	24.326	18.394
8683*	8	16.096	19.736					8867	12	23.414	9.413	8941	27	6.125	19.130
8684	7	1.569	20.999					8868	5	1.094	10.110	8942	7	10.146	19.343
8685	6	3.753	20.475					8869	7	8.093	10.135	8943	10	19.844	19.504
8686	10	7.958	20.033					8870	5	9.645	10.856	8944*	46	21.724	19.804
8687	5	9.228	20.371					8871	10	11.495	10.475	8945	5	2.945	20.926
8688	10	11.404	20.206					8872*	26	14.912	10.497	8946	8	3.886	20.802
8689	6	16.662	20.767					8873	6	19.234	10.287	8947	8	15.503	20.955
8690	8	16.900	20.766					8874	12	21.448	10.185	8948	5	18.142	20.284
8691	10	17.338	20.430					8875*	24	21.516	10.665	8949	8	19.725	20.397
8692	10	18.668	20.746					8876	20	25.359	10.325	8950*	22	20.327	20.499
8693	6	20.177	20.250					8877	8	2.934	11.554	8951	10	24.442	20.730
8694	6	1.959	21.055					8878	6	7.255	11.522	8952*	19	3.200	21.131
8695	9	4.066	21.625					8879*	37	9.225	11.154	8953	6	5.095	21.885
8696	8	4.498	21.154					8880	12	9.637	11.932	8954	7	5.316	21.107
8697	7	8.024	21.399					8881	8	10.261	11.509	8955*	36	5.480	21.535
8698	25	9.106	21.325					8882	28	10.987	11.949	8956	5	5.934	21.543
8699	10	9.600	21.380					8883	9	11.043	11.308	8957	8	6.629	21.165
8700	6	10.344	21.894					8884	14	12.769	11.506	8958	8	7.772	21.247
8701	12	11.826	21.545					8885	18	19.381	11.295	8959*	95	8.555	21.896
8702	5	12.218	21.372					8886	8	24.333	11.425	8960	22	8.626	21.125
8703	7	12.395	21.084					8887	10	8.320	12.920	8961	17	8.633	21.878
8704	11	14.956	21.035					8888	14	9.325	12.906	8962	12	18.226	21.374
8705	11	15.222	21.998					8889	6	10.802	12.396	8963	8	20.745	21.876
8706	10	18.155	21.424					8890*	14	14.449	12.808	8964*	40	2.123	22.575
8707*	26	2.035	22.470					8891	5	18.130	12.650	8965	5	7.667	22.335
8708*	14	2.782	22.686					8892	6	18.866	12.035	8966	6	9.727	22.343
8709	10	4.876	22.774					8893*	21	19.978	12.467	8967	5	11.434	22.105
8710	8	5.253	22.803					8894	22	21.805	12.214	8968	8	0.817	23.854
8711*	36	5.438	22.353					8895	5	1.354	13.916	8969	7	5.465	23.633
8712	12	7.644	22.165					8896	5	5.509	13.700	8970	20	7.313	23.057
8713	5	7.910	22.895					8897	6	8.034	13.935	8971*	16	12.735	23.894
8714	10	9.418	22.974					8898*	39	12.695	13.420	8972	5	18.253	23.046
8715	12	16.009	22.420					8899	18	13.461	13.876	8973	5	21.184	23.135
8716*	40	20.224	22.654					8900	16	13.583	13.844	8974	10	4.825	24.945
8717*	36	25.785	22.398					8901	6	14.596	13.368	8975	15	8.825	24.134
8718	7	1.520	23.540					8902	14	24.130	13.125	8976	16	10.435	24.666
8719	5	3.276	23.164					8903	12	25.986	13.344	8977*	30	15.106	24.009
8720	11	4.180	23.183					8904	17	2.736	14.195	8978	8	15.386	24.077
8721	5	7.123	23.090					8905*	20	3.397	14.259	8979	16	15.882	24.747
8722	5	9.683	23.499					8906	24	16.248	14.165	8980	5	19.170	24.805
8723*	34	13.527	23.205					8907	5	16.582	14.968	8981	5	25.264	24.196
8724	10	14.560	23.279					8908	17	4.545	15.446	8982	6	5.722	25.155
8725	8	24.453	23.654					8909	15	4.765	15.855	8983	17	7.796	25.926
8726	9	0.726	24.842					8910	8	7.051	15.264	8984	5	11.330	25.645
8727	7	2.965	24.741					8911	5	7.383	15.085	8985	7	12.233	25.816
8728	6	6.755	24.120					8912	13	7.615	15.596	8986	16	13.035	25.874
8729	10	12.950	24.825					8913	6	8.642	15.027	8987	12	19.144	25.994
8730	8	14.244	24.015					8914	20	13.235	15.164				

R. A. 4^h 39^m

Plate 1301; 1899 Feb. 10.

Provisional Constants.

A	B	C
-00035	+00554	-2442

D	E	F
-00562	-00021	-3342

Mag. = 13.9 - 1.02√d

R. A. 4^h 30^m

Plate 1330; 1899 Feb. 25.

Provisional Constants.

A	B	C
-00042	+00847	-3586

D	E	F
-00859	-00030	-0556

Mag. = 14.8 - 1.02√d

No.	d	x	y
8801	29	9.274	0.803
8802*	38	14.233	0.002
8803	12	15.937	0.236
8804	7	20.462	0.637
8805	33	22.450	0.683
8806	12	23.006	0.648
8807*	33	14.155	1.436
8808	10	19.993	1.743
8809	8	23.680	1.343
8810	12	2.625	2.804
8811	6	2.733	2.355
8812	12	8.347	3.583
8813	8	17.786	3.214
8814	18	19.695	3.075
8815	6	21.868	3.888
8816	5	22.156	3.510
8817	18	22.723	3.083
8818	13	23.766	3.964
8819	14	25.045	3.399
8820	6	7.936	4.733
8821*	37	8.724	4.768
8822	6	22.372	4.257
8823	14	23.687	4.865
8824*	15	4.162	5.573
8825	17	13.145	5.470
8826	5	19.403	5.176
8827	8	20.067	5.233
8828	7	20.935	5.395
8829	5	21.530	5.560
8830	6	21.686	5.580
8831	6	25.980	5.265
8832	8	9.748	6.954
8833	10	10.794	6.985
8834	14	17.855	6.425
8835	8	18.496	6.316</

9057	6	10°7'26"	12°9'94"	9131	13	14°9'28"	24°1'01"	9244	5	11°4'55"	9°5'66"	9318	5	13°1'44"	20°7'96"	9405	4	12°6'34"	1°8'44"
9058	6	18°0'52"	12°3'82"	9132	8	21°3'49"	24°3'20"	9245	12	12°2'68"	9°7'62"	9319*	31	13°2'60"	20°2'93"	9406	6	20°9'73"	1°8'00"
9059	12	2°2'39"	13°2'54"	9133*	22	2°4'64"	25°3'62"	9246	8	17°3'43"	9°2'56"	9320	9	15°7'37"	20°3'15"	9407	12	23°8'45"	1°5'62"
9060	8	3°8'25"	13°9'16"	9134	7	5°3'00"	25°8'17"	9247	10	18°8'45"	9°2'63"	9321*	26	15°8'46"	20°5'04"	9408	5	25°1'56"	1°3'40"
9061	12	7°1'79"	13°7'85"	9135	6	13°7'95"	25°5'30"	9248	6	3°0'05"	10°6'05"	9322	5	17°5'80"	20°7'12"	9409*	23	3°7'60"	2°9'67"
9062	11	9°5'09"	13°4'02"	9136	6	13°8'14"	25°4'33"	9249	8	6°1'05"	10°4'59"	9323	7	19°1'95"	20°0'76"	9410	11	5°3'44"	2°5'70"
9063	13	15°5'30"	13°8'87"	9137*	55	20°8'06"	25°2'76"	9250	6	0°2'29"	11°8'37"	9324	6	19°9'73"	20°6'32"	9411	7	14°7'91"	2°1'31"
9064*	27	17°2'45"	13°0'98"	9138	24	20°9'53"	25°3'55"	9251*	19	2°5'36"	11°8'24"	9325	5	21°0'42"	20°0'29"	9412	4	17°1'47"	2°0'12"
9065	11	18°9'82"	13°4'02"					9252*	40	9°5'07"	11°8'45"	9326	7	24°5'54"	20°1'27"	9413	7	18°0'03"	2°2'90"
9066	7	19°4'73"	13°0'69"					9253	6	25°0'04"	11°5'76"	9327*	26	24°6'02"	20°1'68"	9414	4	20°3'99"	2°5'40"
9067	7	4°2'65"	14°7'67"					9254	11	25°4'45"	11°4'24"	9328	5	25°9'03"	20°7'14"	9415*	50	3°7'90"	3°0'27"
9068	16	5°6'56"	14°9'45"					9255	10	16°3'42"	12°2'22"	9329*	16	0°9'27"	21°7'46"	9416	12	21°5'00"	3°4'35"
9069	12	7°3'95"	14°2'85"					9256	6	16°3'47"	12°1'85"	9330*	30	1°6'07"	21°8'76"	9417	5	25°7'72"	3°5'45"
9070	8	21°0'21"	14°1'45"					9257	6	20°4'03"	12°5'72"	9331	12	2°2'83"	21°7'34"	9418	6	4°9'44"	4°8'91"
9071*	39	23°4'28"	14°6'67"					9258	12	23°6'66"	12°1'78"	9332	14	2°8'45"	21°8'98"	9419	6	9°2'01"	4°9'76"
9072	8	24°6'78"	14°1'27"					9259*	25	2°5'73"	13°4'23"	9333	8	3°9'48"	21°2'23"	9420	6	24°4'28"	4°8'28"
9073	11	1°1'57"	15°7'16"					9260	14	6°7'61"	13°1'76"	9334	20	6°4'05"	21°7'86"	9421	8	3°7'30"	5°5'70"
9074	6	16°7'55"	15°7'45"					9261*	28	19°1'95"	13°7'94"	9335	23	19°5'04"	21°3'15"	9422	19	4°6'65"	5°6'91"
9075	8	17°8'28"	15°3'35"					9262*	30	20°1'96"	13°7'35"	9336	5	21°5'95"	21°6'85"	9423	9	5°7'24"	5°4'91"
9076	6	17°8'85"	15°3'01"					9263	24	21°9'44"	13°0'25"	9337	7	1°6'06"	22°8'92"	9424	7	5°9'66"	5°7'15"
9077	7	20°8'52"	15°8'46"					9264	8	0°8'57"	14°2'19"	9338	8	3°5'37"	22°2'15"	9425	6	14°0'57"	5°8'18"
9078	10	23°4'54"	15°0'20"					9265*	46	3°8'52"	14°3'23"	9339	7	3°8'80"	22°1'14"	9426	17	14°8'94"	5°4'83"
9079	6	5°1'69"	16°5'56"					9266*	6	3°9'97"	14°3'04"	9340	13	9°9'84"	22°7'88"	9427	8	17°8'73"	5°9'50"
9080	7	17°6'60"	16°4'59"					9267	7	18°5'78"	14°8'17"	9341	14	17°6'56"	22°4'34"	9428	11	20°6'64"	5°4'50"
9081	8	19°5'28"	16°8'34"					9268	5	23°1'74"	14°3'76"	9342	10	21°5'82"	22°1'14"	9429	6	24°3'25"	5°0'66"
9082	9	21°3'04"	16°2'66"					9269	6	23°1'94"	14°8'55"	9343	18	21°8'45"	22°7'46"	9430	13	24°6'93"	5°0'37"
9083	6	2°2'45"	17°9'05"					9270	13	2°4'74"	15°0'85"	9344	10	23°0'22"	22°9'05"	9431	5	17°6'05"	6°6'64"
9084	10	2°2'90"	17°1'31"					9271	6	9°4'70"	15°5'04"	9345	13	5°8'45"	23°2'14"	9432*	19	18°0'94"	6°9'35"
9085*	66	2°4'85"	17°7'45"					9272	11	10°8'04"	15°8'96"	9346	9	9°7'35"	23°3'44"	9433	10	11°4'88"	7°0'49"
9086*	26	4°8'44"	17°5'55"					9273	7	18°0'66"	15°8'36"	9347	8	10°9'14"	23°2'57"	9434	4	12°5'90"	7°7'82"
9087	10	5°0'66"	17°1'76"					9274	18	19°6'55"	15°5'86"	9348	6	13°4'94"	23°5'19"	9435*	50	16°4'20"	7°3'83"
9088	6	9°2'74"	17°9'85"					9275	6	21°9'71"	15°2'77"	9349	13	18°9'18"	23°7'95"	9436*	20	17°4'25"	7°3'40"
9089	5	15°2'35"	17°9'71"					9276	6	23°4'16"	15°9'17"	9350	13	23°2'09"	23°0'24"	9437	8	24°6'20"	7°6'87"
9090	16	15°9'05"	17°2'56"					9277	16	23°7'43"	15°9'17"	9351	10	3°6'15"	24°2'16"	9438	6	4°7'36"	8°0'79"
9091	12	0°6'56"	18°3'26"					9278*	16	5°5'88"	16°8'66"	9352	14	4°0'65"	24°2'10"	9439	5	13°7'53"	8°4'44"
9092	12	3°6'44"	18°2'00"					9279	14	10°9'87"	16°0'16"	9353	7	5°9'56"	24°7'25"	9440	8	18°3'25"	8°8'24"
9093*	30	3°7'02"	18°2'76"					9280	10	15°5'90"	16°3'58"	9354	6	7°5'76"	24°3'56"	9441	6	5°6'07"	9°3'15"
9094	8	14°0'04"	18°1'50"					9281	16	19°3'20"	16°0'46"	9355	6	20°1'95"	24°9'23"	9442	9	15°3'85"	9°8'29"
9095*	46	14°3'55"	18°3'05"					9282	14	20°0'15"	16°4'84"	9356	10	20°3'56"	24°0'65"	9443	4	21°9'61"	9°3'16"
9096*	10	22°7'66"	18°9'82"					9283	6	24°2'56"	16°0'63"	9357	10	25°5'20"	24°8'95"	9444	4	24°5'65"	9°7'76"
9097	5	23°3'06"	18°2'35"					9284	12	25°8'76"	16°3'95"	9358	10	25°5'31"	24°9'05"	9445	5	3°2'53"	10°4'55"
9098	5	12°0'84"	19°3'64"					9285	7	4°5'15"	17°0'86"	9359	14	2°4'93"	25°5'43"	9446	10	5°7'97"	10°5'38"
9099	7	13°8'80"	19°1'07"					9286	15	7°3'90"	17°3'42"	9360	15	9°5'25"	25°3'54"	9447	5	8°2'91"	10°4'79"
9100	10	15°9'01"	19°8'81"					9287	13	8°8'05"	17°9'73"	9361	8	9°5'35"	25°8'76"	9448	4	11°4'14"	10°7'24"
9101	5	17°7'11"	19°6'58"					9288	8	11°7'46"	17°4'63"	9362	6	11°0'41"	25°5'05"	9449	8	13°4'01"	10°1'23"
9102	8	17°9'82"	19°3'45"					9289	16	15°6'62"	17°6'86"	9363	6	11°7'55"	25°3'33"	9450	12	17°9'85"	10°6'06"
9103	8	19°5'49"	19°7'46"					9290	12	22°2'95"	17°8'72"	9364	6	17°5'01"	25°4'96"	9451	8	1°6'11"	11°9'27"
9104*	26	22°5'16"	19°8'05"					9291	6	2°8'34"	18°9'51"					9452	14	2°3'13"	11°5'21"
9105	8	0°8'06"	20°6'66"					9292*	20	5°6'55"	18°1'28"					9453	7	4°6'64"	11°9'06"
9106	5	14°0'72"	20°6'03"					9293	6	9°6'21"	18°3'81"					9454	21	11°8'45"	11°5'23"
9107	10	14°5'48"	20°5'45"					9294	12	10°1'69"	18°2'88"					9455	11	13°7'88"	11°8'90"
9108*	30	15°3'12"	20°8'55"					9295	10	11°7'81"	18°9'55"					9456	7	20°0'70"	11°9'61"
9109	6	21°0'66"	20°6'40"					9296	10	21°4'44"	18°6'57"					9457	16	3°3'76"	12°3'04"
9110	17	22°9'75"	20°9'39"					9297	5	6°8'44"	19°4'35"					9458	4	8°1'86"	12°0'27"
9111	18	24°8'64"	20°4'52"					9298	8	7°0'30"	19°7'43"					9459	20	11°2'96"	12°7'10"
9112*	43	25°4'15"	20°7'46"					9299	6	7°6'85"	19°3'24"					9460	12	12°4'90"	12°3'61"
9113	6	11°1'46"	21°9'19"					9300*	19	8°0'15"	19°2'95"					9461	8	14°5'17"	12°9'05"
9114*	18	11°5'32"	21°4'40"					9301	6	11°4'55"	19°7'64"					9462	16	20°0'40"	12°4'78"
9115	7	14°3'24"	21°7'19"					9302	10	12°4'50"	19°3'15"					9463*	20	21°9'45"	12°8'85"
9116*	17	16°4'29"	21°3'88"					9303*	17	12°7'56"	19°5'03"					9464*	16	22°6'06"	12°9'00"
9117	12	16°8'84"	21°6'60"					9304	10	17°1'33"	19°0'92"					9465	5	6°3'36"	13°0'27"
9118	21	17°8'77"	21°9'70"					9305	8	17°3'10"	19°1'90"					9466	13	7°3'24"	13°5'86"
9119*	16	24°5'95"	21°6'55"					9306	20	19°0'58"	19°8'86"					9467*	14	7°5'71"	13°9'92"
9120*	30	25°2'69"	21°7'96"					9307	6	20°1'88"	19°5'58"					9468	8	16°1'16"	13°8'27"
9121	10	25°9'44"	21°6'67"					9308	6	20°3'21"	19°7'75"					9469	6	22°6'87"	13°4'69"
9122	16	16°2'70"	22°1'85"					9309	5	20°4'40"	19°6'65"					9470	10	2°9'70"	14°2'75"
9123	8	17°1'65"	22°7'16"					9310	5	20°9'53"	19°3'09"					9471	9	4°0'76"	14°5'63"
9124*	20	20°2'42"	22°1'38"					9311*	16	21°3'99"	19°7'12"					9472	7	8°3'10"	14°9'65"
9125	5	21°5'19"	22°9'45"					9312	18	1°1'74"	20°5'42"					9473	4	8°8'36"	14°9'10"
9126	8	22°5'90"	22°7'67"					9313*	40	1°7'35"	20°8'21"					9474*	36	9°3'90"	14°5'48"
9127	6	25°2'45"	22°8'07"					9314	6	2°7'15"	20°4'86"					9475	7		

9479	6	10°805	15°825	9553	5	15°754	23°319	9625*	23	6°733	7°047	9699*	14	24°975	20°216	9804	6	12°469	0°316
9480	10	13°490	15°567	9554	16	15°907	23°355	9626	8	18°952	7°605	9700	8	0°129	21°094	9805	6	13°085	0°176
9481	4	17°216	15°275	9555	15	16°655	23°985	9627	8	24°256	7°618	9701	8	3°335	21°725	9806*	31	14°946	0°224
9482	4	17°226	15°178	9556	6	16°839	23°361	9628	10	25°503	7°356	9702	8	9°666	21°456	9807	5	16°059	0°348
9483	4	17°600	15°251	9557	11	21°805	23°022	9629*	26	14°542	8°601	9703	16	10°885	21°394	9808	6	16°657	0°605
9484*	26	25°721	15°547	9558*	7	4°679	24°406	9630	6	18°643	8°018	9704	16	14°346	21°967	9809*	14	17°464	0°154
9485	12	0°025	16°467	9559	8	7°634	24°817	9631	17	21°225	8°464	9705*	12	18°316	21°545	9810	8	24°371	0°558
9486	10	2°175	16°885	9560	6	9°869	24°381	9632	16	22°063	8°282	9706	6	18°561	21°065	9811	24	8°307	1°559
9487	11	7°728	16°683	9561	14	11°973	24°681	9633	8	23°104	8°565	9707	13	24°342	21°188	9812	6	19°706	1°635
9488	12	9°114	16°145	9562	7	19°104	24°155	9634	6	23°385	8°419	9708*	6	1°274	22°923	9813	12	19°887	1°042
9489	11	6°700	17°116	9563	8	20°571	24°650	9635*	20	25°008	8°008	9709	8	2°466	22°256	9814	6	20°161	1°625
9490	7	13°575	17°280	9564	12	24°426	24°540	9636*	26	23°750	9°609	9710	6	6°943	22°975	9815	6	23°846	1°684
9491	6	16°165	17°006	9565	11	2°052	25°395	9637	13	23°952	9°892	9711	6	8°461	22°887	9816	8	25°037	1°383
9492	5	21°695	17°970	9566*	21	5°730	25°484	9638	10	25°750	9°784	9712	18	9°916	22°045	9817	16	4°475	2°405
9493	12	21°843	17°561	9567	12	6°441	25°196	9639	5	3°677	10°687	9713	6	10°565	22°205	9818	6	4°527	2°411
9494	9	22°768	17°384	9568	5	7°735	25°337	9640	5	14°935	10°265	9714*	32	13°596	22°692	9819	12	12°685	2°484
9495	14	25°085	17°875	9569	9	12°221	25°320	9641	6	16°156	10°553	9715	6	16°183	22°161	9820	17	16°705	2°605
9496	7	4°898	18°836	9570	11	12°827	25°360	9642	6	22°658	10°431	9716	6	16°487	22°524	9821	7	18°826	2°594
9497	4	10°285	18°581	9571	9	14°057	25°330	9643*	58	6°094	11°686	9717	18	20°903	22°052	9822	8	19°414	2°683
9498*	16	15°764	18°938	9572	5	16°708	25°696	9644*	30	6°110	11°720	9718	14	23°947	22°673	9823	6	20°744	2°609
9499	17	18°756	18°975	9573	16	17°046	25°250	9645	9	18°157	11°493	9719*	43	25°845	22°269	9824	8	23°481	2°823
9500	10	21°223	18°783	9574	5	17°476	25°476	9646	5	18°196	11°506	9720	5	7°495	23°280	9825	6	5°497	3°400
9501	13	4°089	19°222	9575	10	17°521	25°349	9647	12	20°406	11°806	9721	5	9°544	23°026	9826	7	8°906	3°783
9502	7	7°878	19°743	9576	6	18°670	25°690	9648	7	25°027	11°573	9722*	38	10°316	23°204	9827	7	13°775	3°713
9503	7	8°106	19°987	9577	10	21°693	25°134	9649	6	7°618	12°715	9723	9	13°568	23°337	9828	7	15°081	3°387
9504	8	11°121	19°569	9578	8	23°359	25°991	9650	6	2°954	13°953	9724	6	13°779	23°181	9829	6	19°485	3°559
9505	7	15°499	19°159	9579	13	25°466	25°704	9651	15	15°483	13°974	9725	7	16°536	23°894	9830	14	21°652	3°533
9506	7	15°503	19°916					9652	6	17°765	13°536	9726	6	16°665	23°922	9831	7	1°863	4°374
9507*	27	16°747	19°977					9653	5	18°274	13°426	9727	8	0°676	24°848	9832*	25	1°937	4°131
9508	15	16°750	19°390					9654*	26	24°065	13°671	9728	12	3°507	24°955	9833	6	3°027	4°705
9509	8	21°313	19°292					9655*	44	3°046	14°594	9729*	29	5°356	24°706	9834	5	3°744	4°736
9510	6	25°089	19°903					9656	10	9°877	14°074	9730	5	11°814	24°626	9835	7	6°505	4°695
9511*	16	1°002	20°688					9657*	26	17°194	14°006	9731	7	15°514	24°965	9836	5	10°051	4°539
9512	10	12°092	20°640					9658	14	18°128	14°581	9732	7	16°238	24°281	9837*	18	13°782	4°718
9513	7	15°371	20°550					9659	8	20°944	14°527	9733	8	16°386	24°205	9838	16	14°175	4°284
9514	7	20°055	20°196					9660	6	25°214	14°546	9734	6	16°745	24°078	9839	6	23°966	4°475
9515	13	21°406	20°472					9661	7	25°724	14°343	9735	5	17°452	24°695	9840	6	24°235	4°908
9516	6	22°569	20°910					9662*	30	1°885	15°841	9736	16	20°695	24°453	9841	8	0°334	5°767
9517	12	23°915	20°779					9663	9	6°404	15°838	9737	6	21°846	24°201	9842	5	4°801	5°604
9518	12	25°987	20°625					9664	5	12°465	15°815	9738*	22	23°252	24°864	9843	6	5°579	5°760
9519	12	6°018	21°798					9665	6	20°926	15°250	9739	7	23°510	24°807	9844	11	6°234	5°323
9520	16	6°401	21°332					9666	8	20°974	15°376	9740*	25	6°014	25°027	9845	10	6°462	5°048
9521	14	6°633	21°942					9667*	20	23°209	15°025	9741	6	7°732	25°019	9846	14	7°314	5°115
9522	15	7°817	21°689					9668	6	23°735	15°934	9742	18	8°155	25°759	9847	8	8°574	5°228
9523	4	9°850	21°081					9669	5	4°525	16°444	9743	13	10°269	25°906	9848	17	9°484	5°802
9524	14	10°312	21°495					9670	11	14°885	16°786	9744	14	14°207	25°270	9849	6	11°785	5°223
9525	5	13°450	21°993					9671	7	18°105	16°155	9745	18	15°047	25°494	9850	22	11°865	5°016
9526	14	14°706	21°610					9672	6	20°019	16°205	9746	5	22°925	25°442	9851	6	14°243	5°774
9527	11	16°860	21°835					9673	13	22°518	16°861					9852	6	21°134	5°915
9528	9	17°795	21°545					9674	5	5°575	17°755					9853	5	23°193	5°991
9529	7	19°695	21°448					9675	8	5°876	17°264					9854	6	24°426	5°675
9530	4	19°806	21°234					9676	8	10°285	17°146					9855	20	24°940	5°202
9531	6	3°886	22°748					9677	9	17°435	17°805					9856	14	3°905	6°646
9532	17	8°453	22°955					9678	15	19°405	17°421					9857	15	7°931	6°957
9533	8	8°465	22°297					9679	6	21°415	17°630					9858	6	8°044	6°835
9534	6	9°869	22°396					9680	15	1°273	18°175					9859	8	8°400	6°019
9535	5	10°656	22°953					9681	7	4°385	18°486					9860	12	0°338	7°763
9536	6	14°367	22°572					9682	6	20°695	18°047					9861	6	1°476	7°142
9537	4	14°498	22°980					9683	10	8°804	19°875					9862	16	1°583	7°480
9538	9	15°639	22°881					9684	6	15°226	19°279					9863	8	3°196	7°664
9539	7	15°791	22°861					9685	12	2°204	20°915					9864*	12	4°137	7°805
9540	7	17°356	22°757					9686	6	2°236	20°232					9865	6	5°477	7°744
9541	5	20°415	22°579					9687	7	4°535	20°865					9866	14	9°110	7°813
9542*	10	20°550	22°220					9688	9	5°270	20°267					9867	22	9°867	7°279
9543	5	21°775	22°090					9689	12	7°738	20°532					9868	10	11°245	7°996
9544	6	24°930	22°890					9690*	34	8°739	20°029					9869	7	11°681	7°945
9545*	10	25°038	22°620					9691	8	11°399	20°253					9870	6	13°125	7°401
9546	9	2°978	23°216					9692	7	11°774	20°846					9871	8	14°485	7°566
9547	13	7°895	23°245					9693	5	12°975	20°599					9872	5	14°853	7°657
9548	14	8°068	23°888					9694	5	13°267	20°753					9873	6	17°475	7°296
9549	9	9°816	23°223					9695	12	15°992	20°424					9874	12	23°772	7°564
9550	13	10°245	23°610					9696	5	17°015	20°696					9875*	25	1°097	8°143</

9878	8	7.725	8.751	9952	11	23.866	13.936	10026	10	19.637	18.053	10100	8	18.184	21.150	10174	7	8.517	25.145
9879	6	8.522	8.696	9953	10	1.415	14.674	10027	10	19.892	18.382	10101	5	18.655	21.069	10175	10	9.784	25.277
9880	20	8.766	8.277	9954	14	1.917	14.459	10028	20	20.510	18.186	10102	6	19.625	21.890	10176	6	14.960	25.598
9881	20	8.956	8.758	9955	8	2.906	14.019	10029	5	20.648	18.380	10103	6	21.476	21.406	10177	6	15.644	25.203
9882	8	11.637	8.446	9956	8	4.640	14.014	10030	8	20.721	18.480	10104	17	21.685	21.485	10178*	20	17.338	25.065
9883	5	13.525	8.185	9957	6	8.650	14.788	10031	8	21.224	18.855	10105	8	21.859	21.335	10179	7	17.485	25.595
9884	8	15.629	8.772	9958	11	10.512	14.985	10032	10	24.396	18.358	10106	8	22.085	21.135	10180	17	17.708	25.856
9885	26	22.405	8.215	9959	6	12.405	14.094	10033	10	25.228	18.224	10107	8	22.255	21.545	10181	15	18.558	25.815
9886	14	1.869	9.904	9960	17	12.735	14.234	10034	11	2.628	19.710	10108	7	25.114	21.847	10182	6	21.788	25.846
9887	16	2.845	9.106	9961	10	15.566	14.918	10035	9	3.484	19.765	10109	18	0.285	22.822	10183	6	25.221	25.769
9888	5	10.937	9.934	9962	5	16.247	14.209	10036	8	5.496	19.092	10110*	53	2.176	22.384				
9889	8	11.414	9.821	9963	5	18.137	14.234	10037	13	6.856	19.815	10111	7	3.832	22.946				
9890	24	13.885	9.604	9964	12	20.614	14.212	10038	6	8.368	19.938	10112*	22	4.965	22.697				
9891	6	14.605	9.026	9965	7	22.246	14.234	10039	10	8.715	19.684	10113*	32	5.923	22.302				
9892	5	15.006	9.371	9966	12	23.451	14.726	10040	14	10.835	19.477	10114	8	6.549	22.866				
9893	15	17.103	9.165	9967	12	23.713	14.445	10041	10	11.490	19.312	10115	10	6.613	22.274				
9894	12	20.156	9.442	9968	8	24.056	14.403	10042	8	12.630	19.342	10116	6	8.086	22.054				
9895	20	22.710	9.795	9969	6	5.637	15.093	10043	8	15.661	19.243	10117	6	9.440	22.775				
9896	12	24.446	9.195	9970	14	7.274	15.177	10044	11	17.323	19.907	10118	7	9.551	22.185				
9897	18	0.074	10.039	9971	14	8.854	15.894	10045	5	18.416	19.184	10119	8	9.667	22.917				
9898	7	5.047	10.884	9972	12	11.532	15.335	10046	7	18.835	19.693	10120	5	10.273	22.816				
9899	5	11.172	10.602	9973	6	12.832	15.225	10047	17	19.561	19.173	10121	10	10.912	22.597				
9900	26	12.645	10.725	9974	7	14.187	15.236	10048	5	19.755	19.006	10122*	34	11.336	22.235				
9901	5	14.488	10.127	9975	7	18.429	15.255	10049	6	20.245	19.725	10123	8	13.845	22.165				
9902	14	15.354	10.682	9976	10	20.386	15.665	10050	7	21.064	19.844	10124	7	14.016	22.466				
9903	12	20.555	10.748	9977	8	20.790	15.483	10051	6	21.123	19.703	10125	15	14.625	22.888				
9904	12	21.526	10.205	9978	15	21.045	15.534	10052	5	21.195	19.345	10126	15	14.752	22.315				
9905	6	23.961	10.412	9979	17	24.019	15.287	10053	10	23.075	19.487	10127	6	14.754	22.031				
9906	17	25.563	10.705	9980	12	24.056	15.525	10054	10	24.566	19.765	10128	6	18.047	22.896				
9907	10	1.177	11.704	9981	10	2.685	16.447	10055	9	24.961	19.652	10129*	60	18.246	22.816				
9908	5	1.922	11.317	9982	8	3.046	16.023	10056*	150	25.948	19.006	10130	13	20.615	22.744				
9909	6	3.765	11.806	9983	6	7.728	16.847	10057*	24	0.635	20.145	10131	11	23.254	22.106				
9910	6	4.555	11.804	9984	9	8.035	16.432	10058*	20	1.270	20.347	10132	13	23.424	22.074				
9911	5	6.462	11.626	9985	10	10.299	16.273	10059	6	3.555	20.074	10133	11	23.650	22.485				
9912	6	7.227	11.621	9986	7	10.923	16.095	10060*	48	4.814	20.886	10134	10	23.955	22.286				
9913	10	9.720	11.885	9987	7	11.091	16.705	10061	20	8.044	20.381	10135	10	24.619	22.776				
9914	16	11.985	11.014	9988	26	12.645	16.995	10062	12	8.055	20.174	10136	18	25.326	22.731				
9915*	74	12.025	11.016	9989	16	12.860	16.086	10063*	32	8.221	20.804	10137	7	8.226	23.487				
9916	8	15.014	11.269	9990	10	13.196	16.315	10064	8	8.651	20.539	10138	8	8.264	23.805				
9917	7	16.872	11.093	9991	8	13.591	16.172	10065	11	9.135	20.457	10139	22	8.643	23.733				
9918	10	16.876	11.882	9992	5	18.176	16.727	10066	20	9.872	20.712	10140	6	9.986	23.225				
9919	6	17.126	11.314	9993	6	18.763	16.773	10067	5	10.349	20.745	10141	5	10.197	23.520				
9920	11	18.625	11.625	9994	12	19.924	16.673	10068	6	11.367	20.245	10142	30	10.905	23.816				
9921*	32	24.257	11.201	9995	8	23.974	16.538	10069	13	11.664	20.845	10143	12	10.925	23.283				
9922	7	1.104	12.247	9996	18	25.353	16.504	10070	13	11.740	20.690	10144	18	11.691	23.239				
9923	5	4.358	12.674	9997	6	2.907	17.475	10071	7	13.566	20.684	10145	9	12.146	23.871				
9924	6	4.815	12.606	9998	6	4.046	17.327	10072	7	16.491	20.784	10146	12	15.491	23.787				
9925	12	5.512	12.882	9999	8	7.452	17.350	10073	8	16.645	20.625	10147	6	17.425	23.995				
9926*	40	5.975	12.605	10000	20	8.470	17.342	10074*	34	16.790	20.536	10148	5	17.575	23.370				
9927	12	7.404	12.875	10001	6	12.056	17.687	10075	6	16.855	20.276	10149	10	17.767	23.396				
9928	10	9.475	12.565	10002	5	13.785	17.426	10076	7	17.116	20.923	10150	6	18.077	23.257				
9929	18	9.809	12.586	10003	6	15.702	17.106	10077	5	18.246	20.331	10151	23	18.939	23.596				
9930*	30	10.929	12.334	10004*	32	16.460	17.085	10078	15	21.614	20.294	10152	10	19.205	23.921				
9931	7	11.731	12.505	10005*	50	17.359	17.194	10079	7	21.919	20.894	10153	22	20.367	23.383				
9932	24	11.755	12.552	10006	12	18.140	17.375	10080	5	22.690	20.207	10154	10	20.686	23.495				
9933*	32	16.215	12.775	10007	10	20.499	17.081	10081	8	22.981	20.785	10155*	25	22.446	23.494				
9934	6	16.566	12.535	10008	10	21.508	17.898	10082	12	23.995	20.651	10156	6	5.590	24.178				
9935	19	17.674	12.260	10009	8	21.715	17.396	10083	10	24.293	20.851	10157	12	7.685	24.675				
9936	12	18.409	12.676	10010	20	22.225	17.729	10084	19	24.839	20.383	10158	6	7.704	24.795				
9937	6	20.811	12.245	10011	10	23.735	17.065	10085	14	24.946	20.345	10159	8	8.386	24.996				
9938	7	22.614	12.008	10012	16	2.306	18.555	10086	6	25.523	20.316	10160	9	11.001	24.676				
9939	23	23.666	12.424	10013	5	2.854	18.584	10087	19	0.655	21.331	10161	8	11.471	24.474				
9940	12	24.166	12.666	10014	7	3.330	18.726	10088	5	1.245	21.776	10162	11	13.455	24.304				
9941	7	25.443	12.293	10015	12	4.405	18.308	10089	8	5.185	21.534	10163	22	16.940	24.680				
9942*	30	0.250	13.815	10016	6	7.119	18.835	10090	15	9.263	21.185	10164*	37	17.249	24.649				
9943	12	3.681	13.754	10017	8	7.229	18.990	10091	8	10.436	21.248	10165	9	17.885	24.795				
9944	12	4.691	13.311	10018	6	8.484	18.252	10092	13	11.253	21.331	10166	8	22.264	24.378				
9945	8	5.655	13.174	10019	5	10.783	18.315	10093	6	11.311	21.523	10167	12	23.208	24.308				
9946*	31	9.121	13.785	10020	10	11.977	18.696	10094	5	11.710	21.692	10168	6	25.384	24.364				
9947	6	10.758	13.887	10021	8	15.524	18.163	10095	8	11.749	21.233	10169	8	1.444	25.784				

10242	8	6.951	3.689	10316	12	19.457	8.853	10390	9	8.860	14.704	10464*	20	11.281	18.396	10538	12	12.669	23.087
10243	8	9.683	3.314	10317	11	19.928	8.737	10391	12	10.696	14.648	10465	19	19.371	18.936	10539	9	15.841	23.985
10244	11	10.081	3.339	10318	10	20.500	8.153	10392	8	11.066	14.789	10466*	12	23.482	18.469	10540	11	16.183	23.480
10245	10	13.192	3.105	10319	8	24.782	8.841	10393	12	13.445	14.723	10467*	11	24.278	18.469	10541	8	17.515	23.927
10246	10	13.497	3.294	10320	12	0.636	9.273	10394	10	14.820	14.999	10468	11	0.868	19.929	10542	15	20.649	23.033
10247	9	13.702	3.312	10321	16	2.432	9.257	10395	11	15.198	14.167	10469	10	1.253	19.133	10543	11	24.035	23.593
10248	12	13.791	3.039	10322	10	4.033	9.497	10396	10	15.840	14.732	10470	11	1.266	19.807	10544	12	1.742	24.554
10249	10	20.027	3.196	10323	11	7.483	9.289	10397	10	17.011	14.869	10471*	165	2.247	19.138	10545	19	2.774	24.558
10250	10	21.364	3.239	10324	10	9.412	9.179	10398	9	18.294	14.541	10472	22	3.831	19.734	10546	18	4.711	24.702
10251*	49	24.000	3.919	10325	21	9.570	9.821	10399	8	18.361	14.617	10473	9	5.187	19.754	10547	10	6.852	24.102
10252	9	25.108	3.607	10326	9	10.660	9.390	10400	12	19.658	14.728	10474	10	7.498	19.233	10548	25	8.981	24.413
10253	27	25.320	3.903	10327*	32	10.922	9.913	10401	15	19.772	14.112	10475	11	10.962	19.391	10549	10	8.991	24.758
10254	12	25.827	3.266	10328*	46	15.898	9.085	10402	10	21.940	14.890	10476	12	12.189	19.923	10550	18	11.087	24.231
10255	8	0.372	4.953	10329	16	1.774	10.785	10403	12	22.348	14.091	10477	10	14.250	19.401	10551	8	11.390	24.546
10256	12	3.726	4.756	10330	8	2.150	10.632	10404	19	0.268	15.419	10478	8	14.706	19.814	10552	12	15.490	24.202
10257	10	5.007	4.120	10331	13	4.433	10.863	10405	13	0.307	15.654	10479	11	15.190	19.734	10553	8	16.181	24.878
10258	9	6.401	4.052	10332	8	4.872	10.984	10406*	32	2.548	15.825	10480	10	16.579	19.122	10554	8	16.193	24.363
10259	9	11.054	4.317	10333	22	6.025	10.459	10407	8	2.452	15.241	10481	9	17.830	19.838	10555*	31	17.106	24.148
10260	10	12.713	4.238	10334	12	6.718	10.773	10408	10	3.740	15.141	10482	18	17.892	19.871	10556	11	20.112	24.230
10261	7	14.504	4.692	10335	10	6.840	10.782	10409	8	4.389	15.361	10483	8	21.358	19.881	10557	12	1.588	25.975
10262	16	15.490	4.029	10336	9	12.570	10.411	10410	8	5.567	15.291	10484	17	24.628	19.233	10558	11	6.327	25.232
10263	10	17.524	4.090	10337	8	16.342	10.453	10411	10	7.453	15.126	10485	14	0.300	20.827	10559	9	9.552	25.077
10264	11	17.651	4.385	10338	10	20.084	10.995	10412	10	7.473	15.369	10486	22	1.148	20.545	10560	9	10.271	25.431
10265	15	18.193	4.364	10339*	22	21.169	10.821	10413	8	8.084	15.738	10487	16	1.255	20.506	10561	12	10.626	25.451
10266	11	24.078	4.155	10340	9	21.946	10.453	10414*	22	10.420	15.030	10488	10	1.838	20.471	10562	10	11.256	25.236
10267	22	1.090	5.237	10341	21	23.243	10.743	10415	25	12.096	15.481	10489	14	4.533	20.343	10563	10	15.864	25.929
10268	13	6.490	5.964	10342	9	24.009	10.652	10416	8	12.120	15.032	10490	9	6.627	20.838				
10269	23	6.769	5.816	10343*	37	24.593	10.769	10417	8	12.261	15.536	10491	10	7.274	20.643				
10270	19	6.951	5.481	10344	10	24.754	10.659	10418	8	12.364	15.498	10492	10	14.084	20.777				
10271	7	9.369	5.203	10345*	38	0.466	11.296	10419	11	14.590	15.873	10493	9	16.715	20.591				
10272	15	16.159	5.686	10346	9	5.570	11.926	10420	10	16.178	15.020	10494	9	17.183	20.366				
10273	16	16.768	5.397	10347	12	7.886	11.404	10421	10	17.394	15.886	10495	11	18.100	20.892				
10274*	19	17.190	5.623	10348	8	9.195	11.307	10422	9	17.739	15.318	10496	12	0.602	21.026				
10275	11	19.303	5.430	10349	10	12.218	11.878	10423	15	18.605	15.485	10497	10	3.782	21.440				
10276	10	20.073	5.465	10350	10	14.598	11.498	10424	8	18.651	15.484	10498	24	6.079	21.601				
10277	10	20.763	5.693	10351	10	17.560	11.239	10425	11	18.792	15.480	10499	10	6.570	21.163				
10278	11	22.616	5.549	10352	6	18.801	11.892	10426	11	22.641	15.770	10500	17	7.330	21.707				
10279	15	25.968	5.708	10353	8	19.841	11.521	10427	10	25.318	15.950	10501	9	7.438	21.718				
10280	12	3.907	6.111	10354	10	20.451	11.751	10428	9	0.234	16.680	10502	11	8.032	21.961				
10281	10	8.421	6.424	10355	20	21.872	11.383	10429	21	1.623	16.628	10503	17	8.063	21.342				
10282	9	9.075	6.988	10356	10	21.963	11.620	10430	10	2.385	16.389	10504	10	8.670	21.124				
10283	9	10.680	6.781	10357	9	22.126	11.423	10431	8	3.033	16.025	10505	8	11.524	21.510				
10284	11	12.511	6.384	10358	12	23.943	11.133	10432	8	5.370	16.961	10506	10	17.033	21.852				
10285	12	15.371	6.507	10359	12	0.389	12.775	10433	11	9.057	16.448	10507	9	18.557	21.460				
10286	8	15.450	6.790	10360	10	1.670	12.382	10434	12	10.714	16.801	10508	10	20.326	21.802				
10287	9	15.590	6.647	10361	8	4.322	12.960	10435	9	11.421	16.289	10509	12	22.718	21.871				
10288	8	15.673	6.076	10362	12	8.826	12.402	10436	22	14.319	16.294	10510*	23	22.776	21.552				
10289	10	16.018	6.983	10363	10	9.802	12.249	10437	10	14.923	16.044	10511	12	0.275	22.471				
10290*	21	17.801	6.439	10364	14	10.848	12.555	10438	17	19.142	16.303	10512	12	0.953	22.960				
10291	10	18.207	6.942	10365	9	11.719	12.731	10439*	37	19.938	16.013	10513	9	1.436	22.020				
10292*	22	23.706	6.874	10366	9	13.002	12.659	10440	10	20.129	16.535	10514	21	1.663	22.905				
10293	9	24.905	6.664	10367	10	15.401	12.252	10441	18	24.971	16.908	10515	11	2.604	22.756				
10294	9	2.468	7.585	10368	10	18.461	12.485	10442	16	25.862	16.342	10516	9	7.746	22.820				
10295*	46	4.255	7.038	10369	9	20.091	12.021	10443	17	5.349	17.327	10517*	23	8.129	22.921				
10296	10	6.044	7.193	10370	9	21.700	12.151	10444	11	7.261	17.600	10518	19	8.429	22.482				
10297	11	7.461	7.481	10371	10	22.502	12.684	10445	8	7.843	17.956	10519	13	8.479	22.403				
10298	12	8.145	7.312	10372*	54	24.591	12.642	10446	20	9.528	17.682	10520*	32	10.711	22.882				
10299	10	21.527	7.654	10373	11	25.649	12.469	10447	11	9.976	17.740	10521	11	12.691	22.043				
10300	11	23.203	7.951	10374	10	4.063	13.671	10448	10	11.777	17.049	10522	10	14.853	22.748				
10301	11	23.809	7.502	10375	12	4.187	13.232	10449	9	15.140	17.846	10523	8	16.249	22.387				
10302	8	23.835	7.561	10376	8	5.473	13.703	10450	26	20.561	17.036	10524	18	16.404	22.684				
10303	11	23.964	7.709	10377	14	5.758	13.580	10451	12	0.680	18.508	10525	10	18.952	22.627				
10304	31	24.595	7.095	10378	12	7.075	13.559	10452	12	1.516	18.363	10526	9	19.454	22.413				
10305	8	5.071	8.328	10379	8	10.590	13.573	10453	11	3.195	18.839	10527	18	21.531	22.593				
10306	10	8.766	8.435	10380	10	19.964	13.360	10454*	29	3.794	18.703	10528	17	21.950	22.395				
10307	16	9.235	8.646	10381	10	21.553	13.092	10455	10	4.339	18.113	10529	12	24.178	22.838				
10308	9	9.457	8.530	10382	7	22.073	13.143	10456	8	4.557	18.241	10530	11	3.270	23.600				
10309	8	9.554	8.164	10383	16														

10626	9	0°901	1°873	10700	11	24°252	4°673	10774	6	6°160	8°007	10848	6	22°037	11°646	10922	6	19°348	15°140
10627	11	1°397	1°146	10701	9	2°356	5°763	10775	4	7°067	8°446	10849	6	23°698	11°140	10923*	14	20°569	15°014
10628	4	2°086	1°886	10702	6	3°147	5°382	10776	5	7°347	8°927	10850	12	24°146	11°795	10924*	15	20°727	15°079
10629	5	8°091	1°417	10703	6	3°258	5°913	10777	4	7°797	8°356	10851	6	24°946	11°130	10925	5	21°463	15°658
10630	10	8°139	1°553	10704	4	4°311	5°630	10778	4	7°824	8°318	10852*	23	1°153	12°674	10926	5	23°475	15°098
10631	4	9°897	1°120	10705	10	5°432	5°703	10779	4	7°832	8°546	10853	6	2°204	12°478	10927	10	24°254	15°262
10632	7	11°195	1°695	10706	5	6°125	5°574	10780	4	8°065	8°330	10854	4	6°126	12°281	10928	5	24°818	15°122
10633	5	12°635	1°725	10707	4	6°186	5°568	10781	5	9°259	8°896	10855	8	8°435	12°799	10929	13	24°934	15°141
10634	9	13°475	1°875	10708	13	6°858	5°941	10782	4	10°431	8°592	10856	4	9°429	12°646	10930	5	25°484	15°710
10635	4	14°605	1°811	10709	5	9°628	5°951	10783	4	11°086	8°384	10857	9	9°583	12°904	10931	4	25°503	15°929
10636	10	14°656	1°795	10710	8	10°276	5°461	10784	4	11°730	8°331	10858	4	10°651	12°731	10932	11	25°784	15°502
10637	5	15°628	1°730	10711	5	11°066	5°045	10785	5	12°451	8°091	10859*	11	11°755	12°850	10933	8	1°633	16°895
10638	4	18°280	1°486	10712	7	12°868	5°557	10786	4	12°960	8°700	10860*	11	11°927	12°246	10934	9	2°503	16°313
10639	15	20°875	1°897	10713	4	13°218	5°281	10787	4	15°845	8°971	10861*	12	12°986	12°096	10935	4	6°150	16°011
10640	5	21°033	1°403	10714	8	13°227	5°004	10788	5	16°847	8°611	10862	6	13°138	12°045	10936	11	8°676	16°695
10641*	15	22°402	1°058	10715	4	14°628	5°026	10789	4	17°548	8°881	10863	5	13°327	12°610	10937	4	8°944	16°740
10642	4	22°907	1°262	10716	14	15°180	5°888	10790	11	18°108	8°322	10864	7	15°174	12°574	10938	4	9°656	16°680
10643	6	23°534	1°533	10717	4	16°144	5°871	10791*	13	19°411	8°364	10865	4	16°177	12°397	10939	4	10°172	16°735
10644	10	1°092	2°849	10718	12	16°220	5°235	10792	11	21°064	8°126	10866	4	16°289	12°775	10940	4	12°151	16°811
10645	10	2°205	2°015	10719	4	16°386	5°645	10793	14	22°697	8°473	10867	5	16°475	12°148	10941	6	12°212	16°906
10646	7	4°359	2°391	10720*	22	16°811	5°428	10794	7	24°806	8°576	10868	4	19°719	12°017	10942	8	12°752	16°658
10647	5	4°534	2°449	10721	4	17°196	5°344	10795	4	24°910	8°134	10869	5	20°006	12°835	10943	6	13°519	16°700
10648	13	4°969	2°617	10722	13	17°975	5°386	10796*	14	3°029	9°908	10870	6	22°028	12°309	10944	9	14°010	16°085
10649	4	5°416	2°715	10723*	14	18°398	5°616	10797	5	5°066	9°874	10871	8	22°391	12°743	10945	6	16°542	16°766
10650	9	7°853	2°853	10724	7	19°859	5°359	10798	5	5°227	9°014	10872	7	25°491	12°518	10946	4	21°835	16°024
10651	6	8°211	2°515	10725	4	20°500	5°149	10799	5	5°773	9°037	10873	4	25°709	12°759	10947	10	22°661	16°892
10652	4	10°137	2°370	10726	4	20°944	5°624	10800	4	6°789	9°307	10874	10	0°594	13°225	10948	4	23°378	16°061
10653	6	10°903	2°854	10727	6	21°139	5°246	10801	5	8°000	9°550	10875	11	2°046	13°322	10949	10	24°366	16°558
10654	4	17°949	2°288	10728	12	22°855	5°880	10802	5	9°566	9°346	10876	4	4°486	13°245	10950	8	24°928	16°074
10655	7	23°886	2°469	10729	5	23°519	5°522	10803	13	10°380	9°697	10877	5	10°086	13°412	10951	5	25°643	16°017
10656	7	24°218	2°472	10730	7	24°593	5°885	10804	5	10°698	9°934	10878	9	10°863	13°597	10952	4	4°439	17°340
10657	11	24°802	2°272	10731	8	25°246	5°452	10805	4	11°203	9°236	10879	9	10°872	13°115	10953	4	5°892	17°810
10658	11	1°669	3°989	10732	4	25°772	5°503	10806	5	12°243	9°602	10880	4	13°121	13°104	10954	7	9°150	17°910
10659	6	2°162	3°348	10733	7	25°989	5°606	10807	8	12°347	9°010	10881	11	16°259	13°930	10955*	21	12°545	17°600
10660	5	3°516	3°149	10734	11	0°139	6°972	10808	8	12°880	9°007	10882*	7	18°056	13°405	10956	9	12°649	17°775
10661	12	3°965	3°873	10735	4	1°319	6°737	10809	4	13°951	9°639	10883	5	18°600	13°138	10957	7	13°883	17°374
10662	6	4°153	3°304	10736*	13	2°754	6°235	10810	9	14°045	9°880	10884	7	19°628	13°536	10958	5	14°704	17°231
10663	14	5°739	3°451	10737	7	3°030	6°626	10811*	19	14°644	9°468	10885*	13	19°985	13°543	10959	5	16°292	17°950
10664	5	7°436	3°468	10738	6	4°321	6°463	10812	7	16°329	9°931	10886	9	21°977	13°304	10960	4	16°471	17°136
10665*	11	8°119	3°278	10739	7	8°596	6°849	10813*	24	17°120	9°546	10887	5	22°390	13°692	10961	7	16°735	17°190
10666	5	9°179	3°650	10740	4	9°790	6°769	10814	8	17°142	9°584	10888	4	23°446	13°348	10962	6	17°354	17°531
10667*	22	9°205	3°321	10741	9	10°807	6°784	10815*	23	20°761	9°405	10889	5	23°761	13°451	10963	4	19°096	17°963
10668	6	11°111	3°424	10742	4	12°835	6°603	10816	6	22°678	9°239	10890	8	2°769	14°046	10964*	25	19°609	17°627
10669	5	12°659	3°401	10743	12	13°176	6°128	10817	5	0°530	10°711	10891	7	3°887	14°741	10965	5	20°394	17°984
10670	8	13°029	3°960	10744	6	14°562	6°315	10818*	16	1°110	10°816	10892	10	3°934	14°339	10966	11	21°352	17°705
10671	4	13°422	3°476	10745	4	14°966	6°105	10819	4	1°266	10°701	10893	5	4°246	14°502	10967	8	24°825	17°690
10672	5	14°297	3°999	10746	7	15°231	6°751	10820	12	5°705	10°875	10894	12	4°400	14°020	10968	7	25°360	17°635
10673	6	14°897	3°913	10747	6	19°397	6°904	10821	4	6°131	10°329	10895	9	6°692	14°266	10969	7	0°194	18°478
10674	4	19°500	3°600	10748	4	19°427	6°081	10822	4	6°420	10°726	10896	7	6°798	14°326	10970*	7	0°980	18°460
10675	5	20°364	3°125	10749	6	20°222	6°077	10823*	25	6°480	10°999	10897	11	6°941	14°336	10971	6	3°963	18°185
10676	5	20°546	3°758	10750	5	20°995	6°553	10824	8	7°149	10°129	10898*	14	7°370	14°449	10972	4	5°932	18°213
10677	5	22°056	3°515	10751	5	22°205	6°326	10825	8	7°610	10°707	10899	5	10°915	14°756	10973	5	7°833	18°891
10678	4	22°585	3°858	10752	12	25°616	6°633	10826	4	8°705	10°169	10900	4	11°750	14°215	10974	6	11°523	18°900
10679	6	24°105	3°551	10753	4	0°255	7°596	10827	5	11°686	10°379	10901	4	14°233	14°610	10975	4	12°221	18°463
10680	4	24°274	3°862	10754	4	0°417	7°797	10828	11	13°268	10°687	10902	5	16°150	14°036	10976	10	12°369	18°281
10681	6	24°922	3°377	10755	13	1°027	7°172	10829	9	16°545	10°450	10903	4	16°603	14°613	10977	12	13°617	18°325
10682*	25	25°558	3°776	10756	5	3°014	7°828	10830	14	16°682	10°978	10904*	10	18°218	14°737	10978	8	14°516	18°781
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10685	9	3°152	4°661	10759	8	3°428	7°041	10833	7	21°056	10°991	10907	4	23°587	14°119	10981	5	16°576	18°272
10686	7	4°382	4°380	10760	9	3°855	7°006	10834	8	21°064	10°326	10908	7	24°047	14°514	10982	6	16°810	18°832
10687	7	4°486	4°341	10761	4	4°520	7°467	10835	5	21°136	10°287	10909	5	24°125	14°577	10983	9	17°621	18°579
10688	9	6°205	4°175	10762	6	5°171	7°583	10836	6	21°385	10°836	10910	8	24°560	14°918	10984	4	17°864	18°874
10689	11	8°777	4°841	10763	12	7°539	7°616	10837	8	22°026	10°083	10911	11	24°876	14°510	109			

10996	10	13°02'	19°30'	11070	4	14°20'	24°39'	11139	5	10°15'	1°32'	11213	6	20°68'	2°03'	11287	5	5°26'	5°10'
10997	4	13°77'	19°04'	11071	6	18°06'	24°41'	11140	7	11°18'	1°37'	11214	11	21°03'	2°03'	11288	6	7°00'	5°86'
10998	8	15°09'	19°39'	11072	4	19°84'	24°32'	11141	5	11°64'	1°91'	11215	6	22°72'	2°57'	11289	17	8°56'	5°09'
10999	5	17°27'	19°87'	11073*	23	21°68'	24°15'	11142	16	11°96'	1°78'	11216	9	0°184	3°34'	11290	12	9°45'	5°63'
11000	5	19°86'	19°84'	11074	12	22°23'	24°30'	11143	7	12°07'	1°91'	11217*	48	0°827	3°73'	11291	5	9°96'	5°72'
11001	9	20°26'	19°06'	11075	7	3°082	25°67'	11144	5	12°912	1°80'	11218	6	1°105	3°39'	11292	11	10°817	5°126
11002	4	22°48'	19°73'	11076	10	10°145	25°249	11145	10	13°205	1°916	11219	11	1°459	3°581	11293	5	12°847	5°535
11003	5	23°135	19°723	11077	10	16°865	25°470	11146	6	13°796	1°365	11220	7	2°421	3°666	11294	9	13°777	5°790
11004	5	23°791	19°070	11078	4	16°870	25°940	11147	10	14°117	1°053	11221	5	2°755	3°855	11295	6	14°070	5°216
11005	4	24°419	19°674	11079	17	17°530	25°195	11148	10	14°243	1°854	11222	8	2°886	3°064	11296	6	14°363	5°110
11006	4	24°581	19°810	11080	4	18°349	25°325	11149	8	14°648	1°333	11223	7	4°792	3°723	11297	5	14°437	5°064
11007	11	5°285	20°260	11081	12	21°969	25°694	11150	9	14°988	1°675	11224*	25	5°373	3°246	11298	7	14°665	5°145
11008	4	5°355	20°776	11082	9	22°688	25°800	11151	5	15°450	1°256	11225	7	7°700	3°820	11299	10	15°085	5°981
11009	8	17°890	20°324					11152	18	15°886	1°372	11226	18	7°896	3°197	11300	11	16°185	5°475
11010	12	20°085	20°945					11153	22	16°104	1°116	11227	16	8°441	3°955	11301	6	16°683	5°572
11011	5	22°348	20°508					11154	7	16°156	1°228	11228	6	9°701	3°731	11302	6	17°620	5°484
11012	4	23°631	20°062					11155	14	16°351	1°409	11229	12	10°657	3°356	11303	5	17°910	5°960
11013	4	23°744	20°307					11156	6	16°476	1°686	11230	20	11°191	3°141	11304	12	18°547	5°849
11014	4	24°610	20°148					11157	6	16°624	1°332	11231	6	11°702	3°465	11305	5	20°427	5°945
11015	6	9°006	21°342					11158*	30	16°667	1°795	11232	9	12°637	3°216	11306	6	20°577	5°854
11016	5	10°410	21°943					11159	7	17°284	1°968	11233	16	13°144	3°393	11307	24	20°621	5°858
11017	4	12°861	21°767					11160	14	17°550	1°023	11234	6	13°609	3°817	11308	8	22°860	5°014
11018	5	13°430	21°166					11161	7	17°979	1°503	11235	7	13°646	3°223	11309	5	25°815	5°650
11019*	9	15°996	21°705					11162	6	18°106	1°798	11236	10	13°755	3°344	11310	6	25°824	5°838
11020	5	16°601	21°625					11163	6	18°278	1°614	11237	7	14°765	3°325	11311	24	0°943	6°593
11021	9	17°321	21°361					11164	10	18°502	1°497	11238	10	14°908	3°984	11312	14	1°436	6°005
11022	4	18°153	21°198					11165	8	19°079	1°967	11239	12	15°014	3°625	11313	5	1°663	6°622
11023	4	19°487	21°536					11166	5	19°575	1°644	11240	6	15°037	3°058	11314	8	2°150	6°967
11024	4	20°342	21°284					11167	8	20°955	1°444	11241	5	15°918	3°953	11315	8	3°536	6°265
11025	11	22°185	21°573					11168	12	21°498	1°960	11242	14	16°415	3°064	11316	5	5°004	6°188
11026	5	22°675	21°306					11169	13	21°833	1°277	11243	6	17°376	3°927	11317	12	6°524	6°517
11027	11	24°280	21°840					11170	5	22°127	1°446	11244	6	18°755	3°316	11318	5	8°528	6°585
11028	9	25°255	21°599					11171	8	23°041	1°115	11245	13	20°922	3°257	11319	12	8°566	6°394
11029	7	25°566	21°750					11172	10	23°291	1°509	11246	5	22°248	3°403	11320	5	8°740	6°207
11030	6	0°987	22°795					11173	8	23°383	1°407	11247	5	22°385	3°058	11321	5	9°330	6°410
11031	4	2°411	22°202					11174	16	0°046	2°240	11248	10	25°057	3°896	11322	14	10°617	6°284
11032	4	5°526	22°860					11175*	32	2°549	2°944	11249	8	25°543	3°405	11323	12	11°384	6°484
11033	4	5°807	22°046					11176	8	2°961	2°821	11250	12	25°560	3°055	11324	16	12°451	6°262
11034	8	8°201	22°023					11177	12	2°966	2°413	11251	6	2°286	4°864	11325	8	14°155	6°196
11035	6	8°310	22°251					11178	35	4°083	2°002	11252	5	3°459	4°036	11326*	44	16°310	6°865
11036	4	8°857	22°101					11179	22	4°956	2°124	11253	16	4°280	4°350	11327	6	17°292	6°046
11037	5	11°906	22°994					11180	6	5°760	2°795	11254	6	4°946	4°060	11328	9	17°774	6°284
11038	4	16°214	22°676					11181	5	5°897	2°966	11255	5	5°691	4°514	11329	15	17°934	6°386
11039	5	16°625	22°016					11182	8	6°786	2°875	11256	12	6°295	4°666	11330	5	18°298	6°625
11040	10	16°942	22°176					11183	6	6°942	2°511	11257	6	8°426	4°129	11331	8	18°777	6°959
11041	7	17°599	22°841					11184	7	8°882	2°133	11258	5	10°870	4°731	11332*	50	19°049	6°344
11042	6	20°759	22°133					11185	7	9°315	2°484	11259	6	11°182	4°706	11333	10	20°152	6°890
11043	5	21°714	22°898					11186	14	10°076	2°976	11260	10	12°876	4°500	11334	14	23°030	6°135
11044	9	22°020	22°501					11187	10	11°337	2°215	11261	12	14°013	4°271	11335	13	23°268	6°792
11045	4	22°958	22°775					11188	10	11°609	2°618	11262*	46	14°152	4°590	11336	8	24°885	6°815
11046	4	25°081	22°154					11189	5	11°664	2°747	11263	6	14°375	4°852	11337	13	25°265	6°741
11047	5	0°859	23°549					11190	18	11°955	2°676	11264	6	15°641	4°036	11338	5	0°675	7°361
11048	5	3°292	23°794					11191	22	12°162	2°797	11265	7	15°800	4°852	11339	10	4°925	7°856
11049	6	3°915	23°639					11192	5	12°295	2°791	11266	5	16°373	4°935	11340	11	4°991	7°835
11050	11	4°128	23°972					11193	7	12°405	2°757	11267	8	16°874	4°415	11341	22	5°541	7°107
11051	4	7°184	23°961					11194	26	12°594	2°328	11268	5	16°953	4°635	11342	8	6°241	7°345
11052	7	9°833	23°882					11195	28	12°657	2°937	11269	8	17°737	4°010	11343	10	6°310	7°320
11053	7	15°495	23°156					11196	11	12°665	2°606	11270	9	17°789	4°855	11344	5	6°442	7°812
11054	11	15°646	23°966					11197	12	13°047	2°898	11271	9	18°121	4°016	11345	7	6°945	7°613
11055	5	16°099	23°143					11198	5	13°095	2°576	11272	5	19°056	4°298	11346	7	7°245	7°185
11056*	28	16°780	23°831					11199	21	13°505	2°525	11273	10	19°555	4°955	11347	6	7°926	7°115
11057	4	17°619	23°806					11200	20	13°776	2°597	11274	6	20°739	4°561	11348	12	7°991	7°250
11058	9	17°700	23°323					11201	5	14°172	2°879	11275	20	24°422	4°245	11349	12	8°505	7°063
11059	4	18°204	23°697					11202	20	14°204	2°616	11276	14	24°909	4°861	11350	5	9°162	7°690
11060	4	18°220	23°678					11203	6	15°386	2°155	11277	6	25°884	4°799	11351	8	10°131	7°545
11061	4	18°966	23°781					11204	7	15°516	2°326	11278	10	0°548	5°416	11352	6	10°133	7°387
11062	4	19°155	23°786					11205	24	16°236	2°171	11279	6	1°076	5°457	11353*	50	11°300	7°834
11063	7	4°722	24°745					11206	8	16°670	2°962	11280	10	1°293	5°556	11354	10	11°495	7°681
11064*	14	6°227	24°294					11207	11	16°819	2°086	11281	7	2°385	5°691	11355	14	11°654	7°047
11065	10	10°265	24°046					11208	11	16°843	2°107	11282	6	2°406	5°505	11356	8	12°035	7°965
11066																			

11361	6	15°755	7°590	11435	14	21°180	9°906	11509	6	19°751	11°858	11583	6	23°604	13°739	11657	8	22°612	15°974
11362	6	16°706	7°269	11436	10	22°540	9°896	11510*	64	19°793	11°885	11584	6	24°308	13°990	11658	16	22°935	15°161
11363	12	16°831	7°306	11437	10	22°906	9°859	11511	11	20°360	11°521	11585	6	24°387	13°729	11659	8	24°053	15°857
11364	6	18°312	7°187	11438	19	24°320	9°095	11512	6	20°512	11°155	11586	14	24°720	13°085	11660	5	24°848	15°514
11365	14	18°656	7°995	11439	6	24°935	9°932	11513	5	20°609	11°346	11587	16	25°987	13°110	11661	10	25°296	15°155
11366	18	18°797	7°435	11440	7	25°207	9°942	11514	6	20°861	11°350	11588	13	0°035	14°895	11662	14	25°836	15°976
11367	6	19°065	7°167	11441	9	25°292	9°970	11515	5	21°275	11°883	11589	22	0°345	14°480	11663	32	25°947	15°677
11368	12	19°411	7°718	11442	5	25°400	9°945	11516	9	22°481	11°892	11590	7	2°567	14°465	11664	13	0°428	16°043
11369	12	19°615	7°098	11443	6	25°791	9°275	11517	7	23°212	11°030	11591	12	3°507	14°839	11665	5	0°866	16°261
11370	6	20°169	7°883	11444	7	1°463	10°657	11518	6	23°404	11°065	11592*	48	3°937	14°514	11666	5	1°244	16°186
11371	10	20°182	7°651	11445	12	2°784	10°523	11519	6	23°968	11°883	11593	19	4°446	14°096	11667	5	2°276	16°892
11372	7	21°445	7°175	11446	8	3°167	10°707	11520	8	24°182	11°005	11594	7	6°397	14°312	11668	5	2°395	16°753
11373	5	21°919	7°372	11447	5	3°926	10°851	11521	6	24°454	11°294	11595	7	7°509	14°738	11669	12	3°702	16°800
11374	15	22°777	7°977	11448	7	4°656	10°605	11522	6	24°656	11°155	11596	6	8°164	14°856	11670	6	4°616	16°516
11375	8	24°065	7°029	11449	6	4°782	10°144	11523	14	25°320	11°089	11597	9	8°233	14°705	11671	7	4°868	16°087
11376	5	25°286	7°467	11450	7	5°364	10°272	11524	6	25°514	11°208	11598	7	8°464	14°855	11672	14	5°146	16°467
11377	6	25°297	7°520	11451*	30	5°815	10°450	11525	15	25°724	11°485	11599	7	9°093	14°049	11673	12	5°398	16°533
11378	16	25°476	7°466	11452	6	6°105	10°637	11526	6	25°895	11°145	11600*	38	9°457	14°943	11674	29	5°495	16°543
11379*	32	25°695	7°860	11453	20	7°135	10°286	11527	9	0°924	12°476	11601	5	9°497	14°660	11675	16	6°169	16°835
11380	11	0°165	8°548	11454	6	8°028	10°734	11528	6	2°640	12°491	11602	5	9°626	14°935	11676	7	6°759	16°428
11381	25	2°237	8°954	11455	8	9°556	10°953	11529	5	5°900	12°201	11603	32	11°235	14°377	11677	16	6°888	16°960
11382*	49	2°265	8°962	11456	8	9°816	10°129	11530	6	6°979	12°613	11604	7	11°804	14°127	11678	5	7°893	16°131
11383	5	3°816	8°076	11457	10	10°298	10°663	11531	7	8°275	12°175	11605	7	13°399	14°436	11679	5	7°912	16°205
11384	12	5°036	8°229	11458	10	10°507	10°390	11532	20	10°259	12°014	11606	25	13°424	14°812	11680	7	8°300	16°451
11385	10	5°065	8°447	11459	21	10°996	10°657	11533	8	11°672	12°156	11607	17	15°174	14°580	11681	6	10°005	16°960
11386	15	6°055	8°955	11460	22	11°286	10°717	11534	10	12°217	12°937	11608	20	16°863	14°780	11682	7	10°251	16°691
11387	14	6°142	8°592	11461	9	11°415	10°018	11535	8	12°859	12°697	11609	9	18°360	14°035	11683	22	10°739	16°685
11388	11	6°666	8°025	11462	5	12°783	10°268	11536	9	13°266	12°701	11610	5	18°614	14°794	11684	5	12°331	16°165
11389	8	7°265	8°849	11463	6	13°078	10°425	11537	5	13°676	12°867	11611	14	19°124	14°707	11685	6	12°746	16°606
11390	5	7°507	8°945	11464	10	13°270	10°146	11538	20	13°940	12°165	11612	8	19°905	14°033	11686	14	12°841	16°694
11391	6	8°564	8°543	11465	6	14°315	10°165	11539	16	15°557	12°374	11613	5	20°046	14°405	11687*	46	13°720	16°112
11392	14	9°261	8°251	11466	6	14°389	10°157	11540	10	17°808	12°373	11614	6	20°183	14°575	11688	8	13°936	16°282
11393	6	10°145	8°679	11467	6	14°435	10°394	11541	11	19°907	12°383	11615	7	21°113	14°655	11689	26	14°617	16°399
11394	6	10°250	8°714	11468	10	14°454	10°344	11542	5	20°021	12°795	11616	6	22°585	14°613	11690	16	14°634	16°878
11395	5	11°554	8°647	11469	6	14°696	10°446	11543	6	20°512	12°650	11617	5	22°934	14°285	11691	14	14°770	16°347
11396	6	11°727	8°686	11470	5	17°246	10°655	11544	6	21°298	12°310	11618	8	23°873	14°200	11692	24	14°804	16°608
11397	14	12°207	8°169	11471	5	18°876	10°799	11545	5	21°455	12°425	11619	5	24°270	14°854	11693	21	15°742	16°380
11398	12	13°089	8°005	11472	10	19°580	10°731	11546	5	22°108	12°728	11620	8	24°956	14°255	11694	18	15°946	16°870
11399	6	13°108	8°572	11473	5	20°209	10°280	11547	5	22°418	12°486	11621	8	25°254	14°766	11695	26	16°774	16°127
11400	6	13°751	8°354	11474	14	20°590	10°850	11548	17	22°701	12°880	11622	5	0°082	15°673	11696	13	16°963	16°444
11401	10	14°910	8°106	11475*	37	21°669	10°409	11549	5	24°548	12°081	11623	6	0°296	15°095	11697	5	17°383	16°494
11402	8	16°248	8°467	11476	5	21°702	10°927	11550*	27	24°971	12°337	11624	25	0°415	15°110	11698	7	17°896	16°394
11403	5	16°918	8°405	11477	8	23°823	10°143	11551	5	1°463	13°859	11625	8	0°976	15°667	11699	9	18°175	16°758
11404	10	16°989	8°636	11478	12	24°225	10°216	11552	11	1°521	13°859	11626	5	0°996	15°885	11700	8	18°465	16°937
11405	5	17°263	8°937	11479	8	24°555	10°207	11553	30	2°818	13°805	11627	7	1°137	15°970	11701	6	19°036	16°195
11406*	38	19°395	8°513	11480	12	25°458	10°836	11554	7	3°254	13°134	11628	19	1°272	15°455	11702	6	19°429	16°522
11407	12	20°396	8°063	11481	8	25°626	10°594	11555	6	6°626	13°819	11629	11	2°365	15°795	11703	5	20°433	16°660
11408	32	20°876	8°409	11482	8	0°350	11°097	11556	6	7°352	13°155	11630	8	3°537	15°538	11704	5	21°966	16°535
11409	12	22°380	8°436	11483	22	2°055	11°643	11557	12	7°514	13°115	11631	12	3°798	15°941	11705	5	22°229	16°761
11410	8	1°964	9°707	11484	11	2°736	11°783	11558	6	7°588	13°676	11632*	40	4°406	15°211	11706	8	22°561	16°341
11411	13	3°464	9°914	11485	8	3°136	11°496	11559	8	7°664	13°463	11633	6	4°782	15°729	11707	8	22°625	16°284
11412	5	4°192	9°053	11486	10	3°896	11°388	11560	12	7°676	13°289	11634	5	5°280	15°583	11708	18	23°924	16°464
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11414	6	4°951	9°287	11488	5	5°110	11°405	11562	6	8°046	13°887	11636	6	8°212	15°769	11710	8	24°226	16°763
11415	14	6°945	9°826	11489	6	6°434	11°787	11563	12	8°466	13°496	11637	12	10°465	15°289	11711	8	24°430	16°328
11416	8	7°455	9°239	11490*	31	6°534	11°614	11564	6	10°914	13°974	11638	18	12°585	15°905	11712	22	24°665	16°466
11417	5	7°484	9°559	11491	14	6°845	11°345	11565	7	11°076	13°338	11639	6	12°735	15°745	11713	8	24°675	16°851
11418	9	7°639	9°814	11492	8	7°057	11°457	11566	11	11°144	13°975	11640	10	12°963	15°836	11714	8	24°747	16°937
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11420	6	11°442	9°845	11494	10	7°640	11°197	11568	28	12°926	13°441	11642	12	14°737	15°005	11716	5	25°306	16°200
11421	6	11°842	9°567	11495	9	7°942	11°827	11569	6	14°459	13°402	11643	22	14°870	15°107	11717	7	25°437	16°777
11422	9	12°015	9°622	11496	8	8°486	11°155	11570	5	16°654	13°265	11644	8	15°128	15°313	11718	5	25°602	16°713
11423	6	12°134	9°046	11497	30	9°466	11°437	11571	6	16°685	13°555	11645	7	17°001	15°915	11719	12	0°354	17°659
11424	6																		

11731	30	8°066	17°206	11805	6	18°745	18°395	11879	6	14°435	20°585	11953	5	0°685	22°119	12027	8	7°946	24°737
11732	5	8°263	17°724	11806	5	19°274	18°389	11880	6	14°600	20°245	11954	5	4°975	22°074	12028	5	8°607	24°949
11733	5	8°864	17°487	11807	5	19°395	18°196	11881	5	15°421	20°994	11955	20	5°020	22°035	12029	5	8°859	24°096
11734	6	9°298	17°715	11808*	22	19°817	18°736	11882	8	17°296	20°146	11956	8	6°352	22°598	12030	12	9°115	24°477
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11736	6	10°785	17°764	11810*	20	20°624	18°688	11884	7	19°566	20°324	11958	7	7°679	22°246	12032	8	9°846	24°984
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11738	6	11°262	17°256	11812	12	21°392	18°889	11886	16	20°326	20°506	11960	5	7°796	22°389	12034	6	10°124	24°433
11739	8	11°655	17°089	11813	12	21°554	18°260	11887	6	21°496	20°637	11961	5	8°512	22°345	12035	5	10°285	24°308
11740	5	11°772	17°065	11814	6	23°124	18°215	11888	6	22°219	20°411	11962	16	9°056	22°443	12036	16	11°373	24°992
11741	18	12°344	17°722	11815	8	23°285	18°531	11889	11	22°787	20°573	11963	12	9°314	22°847	12037	6	12°201	24°407
11742	14	12°495	17°378	11816	5	23°483	18°285	11890	7	23°025	20°473	11964	14	11°019	22°265	12038	16	12°574	24°255
11743	7	13°015	17°604	11817	19	23°673	18°484	11891	7	23°055	20°383	11965	6	11°041	22°642	12039	5	12°605	24°491
11744	7	13°214	17°224	11818	6	23°694	18°965	11892	10	23°392	20°729	11966*	16	11°265	22°005	12040	24	13°326	24°064
11745	5	13°265	17°811	11819	8	24°641	18°106	11893	9	23°913	20°354	11967	8	12°024	22°020	12041	10	13°578	24°719
11746	5	13°325	17°566	11820	5	24°749	18°623	11894	7	23°975	20°750	11968*	11	12°351	22°534	12042	6	14°512	24°634
11747	7	15°064	17°767	11821	12	24°898	18°917	11895	6	24°117	20°387	11969	6	12°687	22°421	12043	8	18°047	24°665
11748	6	15°397	17°122	11822	6	0°964	19°488	11896	6	25°223	20°983	11970	5	13°276	22°550	12044	6	18°215	24°815
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11750	6	15°996	17°845	11824	6	2°825	19°127	11898	5	25°864	20°055	11972	6	14°115	22°881	12046	9	19°166	24°354
11751	10	16°616	17°944	11825*	21	2°916	19°184	11899	12	0°855	21°564	11973	22	14°452	22°291	12047	8	19°856	24°205
11752	12	17°536	17°866	11826	11	3°296	19°616	11900	8	1°169	21°705	11974	19	14°638	22°032	12048	16	20°986	24°353
11753	6	18°283	17°784	11827	6	4°756	19°696	11901	13	2°984	21°512	11975	18	17°025	22°757	12049	14	21°980	24°061
11754	5	18°905	17°078	11828	8	5°436	19°254	11902	5	3°135	21°370	11976	6	18°385	22°273	12050	6	22°769	24°071
11755	7	19°212	17°956	11829	11	5°446	19°195	11903	5	3°456	21°875	11977	8	18°436	22°652	12051	24	22°862	24°634
11756	10	19°214	17°588	11830	6	5°560	19°391	11904	6	3°876	21°476	11978	12	23°267	22°657	12052	22	25°634	24°305
11757	10	19°380	17°686	11831	6	5°626	19°165	11905	6	3°976	21°968	11979	7	23°375	22°552	12053	6	3°465	25°037
11758	6	19°581	17°422	11832	14	5°705	19°373	11906	5	3°986	21°451	11980	6	23°725	22°345	12054	9	4°814	25°534
11759	5	19°705	17°285	11833	14	5°836	19°745	11907	12	4°206	21°667	11981	7	23°836	22°078	12055	7	4°850	25°078
11760	16	19°760	17°690	11834	6	6°995	19°857	11908	8	4°320	21°955	11982	5	23°979	22°530	12056	8	6°406	25°547
11761	6	20°446	17°526	11835	8	7°606	19°886	11909	13	5°477	21°817	11983*	32	3°416	23°536	12057	30	6°430	25°735
11762	5	20°644	17°222	11836	6	8°454	19°143	11910	12	5°631	21°523	11984	5	4°075	23°256	12058	6	6°514	25°334
11763	8	20°903	17°180	11837	10	8°861	19°045	11911	5	5°696	21°257	11985	5	4°076	23°904	12059	6	7°006	25°736
11764	5	20°977	17°844	11838*	42	9°875	19°683	11912	6	6°274	21°523	11986	11	6°165	23°623	12060	14	8°246	25°233
11765*	40	21°917	17°706	11839	18	11°777	19°139	11913	6	6°787	21°577	11987	8	6°999	23°325	12061	27	10°295	25°416
11766*	34	21°949	17°733	11840	10	11°901	19°659	11914	18	7°453	21°467	11988	6	8°743	23°854	12062	6	11°205	25°166
11767	14	24°097	17°215	11841	20	12°930	19°626	11915	20	8°439	21°164	11989	5	9°618	23°139	12063	13	12°133	25°194
11768	17	24°124	17°323	11842	20	14°024	19°591	11916	14	8°464	21°961	11990	8	10°805	23°735	12064	10	13°724	25°215
11769	7	24°367	17°172	11843	6	16°519	19°055	11917	10	9°599	21°995	11991	8	11°524	23°151	12065	50	14°183	25°855
11770	5	24°786	17°586	11844	7	16°961	19°630	11918	6	9°625	21°964	11992	6	11°673	23°021	12066	7	15°116	25°215
11771*	33	25°015	17°885	11845	5	17°236	19°307	11919	5	10°183	21°866	11993	5	11°744	23°444	12067	6	17°200	25°148
11772	11	25°745	17°025	11846	5	17°425	19°436	11920	8	10°959	21°987	11994	5	11°832	23°954	12068	6	17°377	25°435
11773	10	0°315	18°409	11847	6	17°725	19°627	11921	11	11°306	21°115	11995	8	12°996	23°817	12069	6	17°544	25°491
11774	28	2°751	18°602	11848	6	17°738	19°259	11922	13	11°505	21°368	11996	9	13°119	23°434	12070	8	18°212	25°836
11775	10	2°806	18°434	11849	6	18°915	19°428	11923*	36	11°573	21°675	11997	10	13°167	23°600	12071	10	19°935	25°635
11776	22	3°525	18°793	11850*	24	19°620	19°764	11924	8	12°334	21°378	11998	12	14°905	23°683	12072	8	21°419	25°176
11777	22	3°659	18°966	11851	9	19°650	19°119	11925	6	12°718	21°605	11999	6	15°798	23°042	12073	6	21°945	25°138
11778	6	3°793	18°326	11852	6	20°851	19°963	11926	6	12°733	21°691	12000	5	16°145	23°234	12074	12	24°085	25°606
11779	11	3°962	18°194	11853	5	21°505	19°775	11927	8	12°746	21°631	12001	5	16°225	23°169	12075	8	24°682	25°575
11780	5	5°046	18°006	11854	5	22°053	19°368	11928	22	14°076	21°965	12002	6	16°336	23°506	12076	41	24°810	25°700
11781	5	5°156	18°844	11855	5	22°245	19°146	11929	5	14°256	21°735	12003	8	18°177	23°367	12077	5	25°195	25°926
11782	6	5°315	18°014	11856	21	22°680	19°906	11930	10	14°262	21°672	12004	8	18°635	23°145				
11783	6	6°041	18°885	11857*	36	23°345	19°924	11931	14	14°826	21°384	12005	12	19°541	23°111				
11784	6	6°169	18°308	11858	5	25°169	19°925	11932	14	15°795	21°615	12006	6	20°195	23°295				
11785	14	7°245	18°565	11859	18	25°178	19°019	11933	11	15°925	21°417	12007	10	20°735	23°904				
11786	5	7°271	18°325	11860	6	25°257	19°756	11934	6	16°334	21°377	12008	12	20°965	23°148				
11787	9	7°610	18°303	11861	7	25°345	19°646	11935	8	17°334	21°865	12009	6	21°487	23°597				
11788	6	7°765	18°603	11862	5	3°348	20°950	11936	7	17°645	21°533	12010	8	21°516	23°529				
11789	7	8°039	18°160	11863	5	4°714	20°994	11937	6	18°384	21°939	12011	10	21°535	23°057				
11790	9	8°658	18°806	11864	5	5°438	20°653	11938	18	18°384	21°039	12012	18	21°995	23°709				
11791	8	10°396	18°098	11865*	40	5°585	20°513	11939	7	18°579	21°975	12013	14	23°485	23°235				
11792	7	10°622	18°667	11866	7	5°757	20°735	11940	10	18°937	21°893	12014	7	23°935	23°936				
11793	22	10°730	18°493	11867	5	7°225	20°400	11941	10	19°045	21°374	12015	7	24°409	23°176				
11794	6	11°215	18°406	11868	6	8°015	20°956	11942	7	19°358	21°446	12016	6	24°490	23°854				
11795	6	12°105																	

12103	11	5.882	0.250	12177	4	4.292	3.299	12251	21	3.624	5.633	12325*	50	22.964	7.421	12399	4	2.162	10.945
12104	12	6.517	0.985	12178	7	5.348	3.907	12252	6	7.697	5.476	12326	13	24.100	7.114	12400	13	4.091	10.876
12105	9	6.845	0.641	12179	9	6.433	3.394	12253	4	8.075	5.139	12327	6	24.920	7.052	12401	11	5.161	10.119
12106	7	11.409	0.270	12180	6	6.496	3.665	12254	9	8.435	5.537	12328	8	25.176	7.925	12402	11	5.350	10.824
12107	11	11.491	0.384	12181	5	6.721	3.236	12255	5	9.341	5.626	12329	5	25.495	7.255	12403	5	7.050	10.049
12108	10	13.105	0.532	12182	10	8.451	3.120	12256	8	12.023	5.231	12330*	22	2.142	8.211	12404	9	8.174	10.078
12109	6	13.222	0.107	12183	8	9.386	3.359	12257	4	12.495	5.992	12331*	78	2.554	8.062	12405	6	10.287	10.250
12110	7	13.356	0.896	12184	5	10.283	3.871	12258	11	13.061	5.601	12332	7	3.714	8.716	12406	20	11.175	10.683
12111	21	13.892	0.855	12185	8	12.289	3.951	12259	9	13.075	5.005	12333	6	5.625	8.850	12407	7	11.194	10.424
12112	10	19.318	0.530	12186	5	12.422	3.962	12260*	19	13.107	5.037	12334	7	5.699	8.847	12408	13	12.316	10.923
12113	6	21.707	0.460	12187	10	13.308	3.025	12261	5	13.424	5.966	12335	6	7.383	8.413	12409	12	13.875	10.307
12114	7	22.292	0.537	12188	8	13.909	3.535	12262	4	14.473	5.982	12336	5	7.941	8.445	12410	8	13.915	10.002
12115	6	22.771	0.208	12189	9	15.865	3.720	12263	9	14.924	5.060	12337	5	10.721	8.435	12411	6	15.073	10.912
12116	8	22.885	0.995	12190	10	15.870	3.005	12264	4	17.210	5.665	12338	8	11.093	8.529	12412	12	16.805	10.720
12117	14	22.894	0.810	12191	9	15.893	3.290	12265	4	19.408	5.763	12339	12	12.807	8.710	12413	10	17.902	10.744
12118	9	23.600	0.085	12192	12	16.232	3.140	12266	12	20.985	5.780	12340	15	13.002	8.691	12414	12	18.499	10.904
12119	4	24.051	0.061	12193	5	17.581	3.426	12267	8	23.029	5.324	12341*	19	13.446	8.033	12415	5	18.560	10.937
12120*	16	1.990	1.254	12194	9	17.756	3.459	12268	9	24.554	5.217	12342	7	14.445	8.347	12416	10	18.965	10.012
12121	10	2.549	1.605	12195	10	18.555	3.631	12269	14	24.618	5.107	12343	10	15.044	8.834	12417	7	20.050	10.348
12122	16	3.871	1.536	12196	19	19.583	3.225	12270	5	2.215	5.281	12344	5	15.482	8.916	12418	10	20.056	10.415
12123	11	4.497	1.446	12197	7	19.957	3.266	12271	4	2.683	6.124	12345	4	16.481	8.868	12419	4	22.531	10.984
12124*	20	7.180	1.825	12198	8	19.980	3.474	12272	4	4.835	6.034	12346	5	16.831	8.627	12420	4	23.940	10.068
12125	15	10.273	1.055	12199	10	20.387	3.846	12273	4	6.367	6.030	12347	14	18.165	8.513	12421	4	25.895	10.669
12126	7	10.792	1.281	12200*	40	20.550	3.845	12274	4	6.405	6.198	12348	5	18.217	8.652	12422	7	25.971	10.945
12127	4	12.175	1.908	12201	13	22.179	3.362	12275	6	9.526	6.390	12349	4	18.300	8.390	12423	5	0.730	11.406
12128	6	13.684	1.551	12202	8	22.989	3.355	12276	7	11.971	6.469	12350	4	20.484	8.377	12424	12	1.872	11.453
12129	6	14.930	1.849	12203	7	23.154	3.848	12277	11	14.117	6.789	12351	8	20.920	8.210	12425	10	2.004	11.195
12130	15	15.272	1.224	12204	9	23.506	3.880	12278	5	15.215	6.488	12352	6	20.965	8.007	12426	13	2.286	11.834
12131	8	15.497	1.624	12205	15	23.671	3.024	12279	5	15.335	6.011	12353	5	21.571	8.054	12427	4	4.150	11.244
12132	9	15.601	1.015	12206*	22	23.756	3.967	12280	5	16.448	6.746	12354	5	21.984	8.546	12428	5	5.412	11.541
12133	14	16.324	1.088	12207	5	24.036	3.182	12281	7	16.691	6.260	12355	10	22.116	8.655	12429	7	5.469	11.580
12134	5	16.333	1.227	12208	4	24.154	3.780	12282	8	17.503	6.548	12356	8	24.185	8.703	12430	11	7.096	11.868
12135	17	17.161	1.508	12209*	21	25.764	3.040	12283	12	17.523	6.348	12357	7	24.800	8.650	12431	22	7.906	11.616
12136	4	17.451	1.217	12210	8	25.872	3.079	12284	11	17.704	6.606	12358	4	25.206	8.746	12432	6	9.055	11.324
12137	10	18.135	1.235	12211	13	0.747	4.637	12285	19	17.726	6.647	12359	6	25.233	8.331	12433	9	9.172	11.030
12138	14	18.550	1.378	12212	6	1.375	4.273	12286	12	18.059	6.252	12360	8	25.246	8.899	12434	15	9.740	11.389
12139	7	20.366	1.653	12213	6	2.955	4.166	12287	4	19.867	6.595	12361	14	0.805	9.490	12435	4	9.896	11.155
12140	7	21.933	1.750	12214	9	4.244	4.100	12288	12	19.910	6.649	12362	10	2.552	9.926	12436	5	9.896	11.810
12141	5	22.495	1.474	12215	10	5.244	4.523	12289	5	19.998	6.321	12363	6	2.873	9.813	12437	5	9.947	11.880
12142	5	23.578	1.642	12216	18	5.819	4.671	12290	12	20.843	6.655	12364	6	3.436	9.985	12438	5	10.255	11.024
12143	14	23.864	1.661	12217	4	5.979	4.193	12291	4	21.980	6.074	12365	12	5.565	9.352	12439	4	11.310	11.651
12144	7	24.060	1.409	12218*	34	7.130	4.746	12292	9	24.850	6.964	12366	7	5.619	9.231	12440	6	11.656	11.256
12145	9	24.121	1.861	12219	10	7.517	4.155	12293	7	24.970	6.558	12367	9	6.431	9.156	12441	12	12.096	11.319
12146	6	25.369	1.932	12220	8	7.725	4.844	12294	6	1.300	7.193	12368	5	6.445	9.074	12442	11	12.110	11.413
12147	12	25.710	1.785	12221	10	8.586	4.472	12295	11	1.674	7.106	12369	7	7.347	9.614	12443	10	12.432	11.101
12148	6	4.155	2.960	12222	7	9.009	4.872	12296	12	1.907	7.825	12370*	46	8.795	9.217	12444	7	12.500	11.106
12149	7	5.029	2.090	12223	13	9.200	4.266	12297	6	2.575	7.091	12371	5	10.226	9.801	12445	11	12.833	11.504
12150	17	6.558	2.633	12224	6	10.141	4.724	12298	7	2.640	7.796	12372	5	10.894	9.222	12446	4	13.249	11.108
12151	7	6.873	2.360	12225	5	10.222	4.638	12299	7	2.972	7.162	12373	11	11.043	9.684	12447	22	13.823	11.392
12152	14	7.478	2.429	12226	6	10.241	4.005	12300*	20	3.465	7.050	12374	6	12.704	9.284	12448	4	13.831	11.614
12153*	24	7.759	2.008	12227	5	11.618	4.193	12301	10	3.948	7.324	12375	9	14.360	9.214	12449	9	14.020	11.651
12154	7	7.767	2.094	12228*	35	12.531	4.400	12302	11	4.476	7.256	12376	20	14.719	9.165	12450	5	15.010	11.684
12155	4	9.623	2.292	12229	5	13.323	4.978	12303	4	6.260	7.415	12377	10	15.523	9.285	12451	10	15.414	11.970
12156	6	9.937	2.563	12230	5	13.425	4.045	12304	17	6.670	7.670	12378	10	15.749	9.419	12452	5	15.631	11.674
12157	4	10.250	2.560	12231	9	15.436	4.575	12305	4	8.397	7.405	12379*	24	16.201	9.620	12453	6	16.984	11.300
12158*	25	10.327	2.670	12232	11	16.088	4.978	12306	6	8.673	7.990	12380	8	16.725	9.270	12454	5	17.103	11.375
12159	7	10.479	2.457	12233	5	17.488	4.050	12307	9	11.275	7.476	12381	6	17.202	9.585	12455	12	17.423	11.629
12160	5	11.321	2.847	12234	19	17.608	4.347	12308	10	11.807	7.871	12382*	17	17.650	9.972	12456	6	17.721	11.950
12161	6	12.408	2.825	12235	7	17.746	4.255	12309*	22	12.530	7.808	12383	6	18.500	9.318	12457	6	18.829	11.647
12162	7	13.510	2.422	12236	4	18.209	4.129	12310	5	13.897	7.811	12384	5	18.771	9.255	12458	13	19.096	11.810
12163	5	14.016	2.701	12237	13	19.335	4.747	12311	13	14.024	7.936	12385	4	20.488	9.776	12459	5	21.855	11.321
12164	18	14.397	2.122	12238	10	20.056	4.894	12312	13	14.340	7.788	12386	8	21.259	9.513	12460	10	22.162	11.269
12165	6	17.271	2.856	12239	12	21.133	4.498	12313	5	15.744	7.044	12387	7	22.566	9.617	12461	5	23.606	11.090
12166	7	18.191	2.722	12240	5	21.136	4.565	12314	10	17.310	7.975	12388	6	23.116	9.969	12462	5	25.765	11.8

12473	6	9°575	12°315	12547	8	20°416	14°438	12621	4	20°495	16°388	12695	10	21°238	18°865	12769	14	23°549	20°180
12474	8	10°512	12°548	12548*	38	20°513	14°065	12622	6	21°576	16°360	12696	7	21°507	18°887	12770	4	23°686	20°159
12475	22	13°603	12°950	12549	4	21°084	14°166	12623	4	21°705	16°224	12697	4	22°537	18°657	12771	5	23°899	20°979
12476	5	14°467	12°881	12550	9	21°517	14°181	12624	7	21°932	16°865	12698	7	22°926	18°597	12772	7	25°272	20°146
12477	4	17°287	12°855	12551	4	21°725	14°256	12625	4	23°915	16°095	12699	11	23°459	18°309	12773	7	0°256	21°152
12478	6	17°628	12°392	12552	5	22°487	14°328	12626	12	24°143	16°336	12700	10	23°641	18°016	12774	4	0°844	21°155
12479	10	18°066	12°213	12553	5	23°245	14°111	12627	7	24°534	16°918	12701	12	24°326	18°984	12775	9	1°043	21°578
12480	13	18°538	12°894	12554	9	23°582	14°623	12628	7	25°545	16°017	12702	7	24°745	18°394	12776	10	1°153	21°991
12481	6	19°162	12°110	12555	4	23°640	14°032	12629	6	25°675	16°963	12703	9	25°991	18°866	12777	4	2°098	21°339
12482	8	19°191	12°924	12556	10	23°724	14°291	12630	4	0°707	17°240	12704	9	1°706	19°292	12778	5	3°833	21°376
12483	4	19°513	12°072	12557	5	1°926	15°130	12631	10	0°851	17°610	12705	12	1°989	19°383	12779	10	3°886	21°955
12484	7	19°833	12°235	12558	9	1°982	15°516	12632	13	0°882	17°718	12706	7	5°659	19°325	12780	8	5°928	21°698
12485	9	19°848	12°136	12559	4	3°400	15°656	12633	4	0°963	17°157	12707	4	6°435	19°147	12781	6	6°013	21°608
12486	4	22°749	12°590	12560	13	3°954	15°925	12634	4	1°117	17°562	12708	8	6°919	19°760	12782	6	7°409	21°415
12487	4	25°205	12°997	12561	4	5°443	15°751	12635	5	1°416	17°231	12709	4	8°683	19°343	12783	4	9°496	21°521
12488	4	0°188	13°716	12562	4	6°752	15°610	12636	4	1°497	17°318	12710	21	9°147	19°829	12784	4	10°105	21°379
12489	11	1°338	13°466	12563	9	7°205	15°776	12637	6	2°177	17°131	12711	12	9°510	19°644	12785	12	10°168	21°480
12490	12	2°606	13°450	12564	14	7°488	15°601	12638	10	2°490	17°369	12712	4	11°074	19°681	12786	4	10°415	21°787
12491	5	3°677	13°773	12565	8	7°888	15°302	12639	10	3°000	17°401	12713	15	12°863	19°465	12787	6	10°599	21°735
12492	5	4°019	13°529	12566	12	8°139	15°819	12640	5	3°815	17°878	12714	7	13°473	19°915	12788	21	10°717	21°436
12493	10	5°222	13°894	12567	4	8°691	15°541	12641	6	3°942	17°122	12715	7	13°486	19°875	12789	5	16°193	21°625
12494	19	6°201	13°521	12568	5	9°223	15°964	12642	11	4°080	17°227	12716	9	14°555	19°181	12790	10	16°343	21°362
12495	7	6°345	13°902	12569	4	10°520	15°945	12643	10	4°355	17°495	12717	10	15°570	19°488	12791	4	17°059	21°014
12496	11	7°092	13°029	12570	4	13°486	15°595	12644	12	4°358	17°578	12718	7	15°656	19°495	12792	5	17°342	21°396
12497	7	7°831	13°191	12571	15	14°145	15°401	12645	9	5°918	17°179	12719	7	16°226	19°851	12793	7	17°437	21°017
12498	20	8°646	13°023	12572	10	16°682	15°981	12646	6	6°555	17°293	12720	10	16°555	19°386	12794	7	17°965	21°135
12499	8	8°681	13°621	12573	9	17°474	15°166	12647*	30	7°014	17°311	12721	8	16°634	19°381	12795	4	18°507	21°858
12500	6	9°290	13°715	12574	4	18°549	15°919	12648	11	7°643	17°259	12722	7	16°915	19°294	12796	7	19°440	21°039
12501	10	11°920	13°708	12575	5	18°799	15°214	12649	6	7°935	17°515	12723	10	17°950	19°883	12797*	28	20°409	21°526
12502	18	12°746	13°854	12576	18	19°325	15°966	12650	14	8°046	17°184	12724	8	18°290	19°771	12798	7	21°167	21°524
12503	17	13°254	13°935	12577	20	19°436	15°447	12651	7	8°840	17°466	12725	4	18°298	19°406	12799	5	21°316	21°612
12504	4	13°902	13°707	12578	9	19°550	15°597	12652	6	8°903	17°540	12726	6	18°851	19°805	12800	8	21°374	21°004
12505	10	14°946	13°151	12579	9	19°571	15°591	12653	4	9°415	17°608	12727	5	19°561	19°006	12801	10	23°183	21°972
12506	4	15°304	13°174	12580	6	20°518	15°270	12654	4	9°502	17°321	12728	4	20°041	19°932	12802	11	23°477	21°084
12507	12	16°109	13°906	12581	4	20°534	15°285	12655	10	11°097	17°073	12729	7	20°054	19°979	12803	9	23°489	21°049
12508	4	16°774	13°214	12582	5	21°321	15°580	12656	4	12°799	17°345	12730	19	20°765	19°486	12804	18	25°219	21°712
12509	4	18°201	13°104	12583	7	21°717	15°127	12657	9	12°848	17°224	12731	6	21°525	19°456	12805	5	25°796	21°786
12510	9	20°886	13°444	12584	8	21°955	15°631	12658	5	15°661	17°297	12732	8	21°853	19°929	12806	12	3°654	22°193
12511	15	21°635	13°014	12585	6	22°303	15°509	12659	9	16°810	17°786	12733	5	22°339	19°723	12807	5	3°880	22°286
12512	7	23°250	13°529	12586	5	22°880	15°439	12660	5	18°111	17°915	12734	10	22°785	19°924	12808	9	4°644	22°562
12513	15	23°984	13°299	12587	14	22°913	15°905	12661	5	19°761	17°412	12735	19	23°113	19°898	12809	8	5°052	22°714
12514	6	24°217	13°658	12588	5	23°748	15°065	12662	6	19°799	17°163	12736	11	24°763	19°964	12810	7	6°085	22°392
12515	4	24°326	13°647	12589	9	23°795	15°450	12663	7	20°610	17°255	12737	4	24°825	19°086	12811	4	6°212	22°862
12516	4	24°460	13°896	12590	9	24°238	15°944	12664	5	20°721	17°588	12738	5	25°200	19°136	12812	11	7°872	22°100
12517	4	24°505	13°181	12591	14	24°286	15°955	12665	6	21°860	17°293	12739	8	25°341	19°334	12813	4	9°514	22°786
12518	10	25°384	13°340	12592*	26	24°628	15°070	12666	4	22°063	17°897	12740	24	0°185	20°347	12814	14	9°565	22°038
12519	6	25°457	13°772	12593	4	24°995	15°234	12667	5	23°469	17°701	12741	7	0°767	20°757	12815	22	9°578	22°038
12520	5	0°527	14°611	12594	7	25°359	15°200	12668	8	24°288	17°054	12742	4	2°015	20°289	12816	4	9°671	22°306
12521	5	1°613	14°627	12595	12	0°651	16°868	12669	11	24°771	17°987	12743	4	2°099	20°120	12817	8	11°084	22°820
12522	4	2°665	14°567	12596	5	0°759	16°261	12670	6	24°901	17°203	12744	11	2°646	20°803	12818	8	12°957	22°175
12523	7	4°657	14°536	12597	5	1°154	16°716	12671	6	25°109	17°695	12745	18	3°719	20°818	12819	4	13°805	22°205
12524	5	5°354	14°720	12598	15	1°393	16°844	12672	4	25°867	17°939	12746	10	4°522	20°026	12820	14	13°918	22°521
12525	4	6°039	14°582	12599	11	2°548	16°319	12673	5	0°078	18°957	12747*	21	6°261	20°836	12821	6	14°460	22°204
12526	6	6°798	14°995	12600*	23	2°648	16°015	12674	14	0°466	18°895	12748	6	6°604	20°946	12822	7	20°902	22°855
12527	22	7°186	14°967	12601	5	3°509	16°681	12675	4	1°419	18°488	12749	7	8°172	20°983	12823	10	21°209	22°465
12528	7	7°261	14°121	12602	11	4°158	16°281	12676*	23	1°788	18°253	12750	8	8°375	20°282	12824	7	22°603	22°552
12529	5	7°495	14°188	12603	4	5°436	16°530	12677	4	4°170	18°351	12751	8	9°589	20°171	12825	11	22°722	22°179
12530	9	7°930	14°186	12604	5	5°495	16°331	12678	7	4°576	18°203	12752	4	9°678	20°396	12826*	21	23°734	22°219
12531	6	9°522	14°325	12605	5	7°004	16°399	12679	5	4°593	18°345	12753	4	12°041	20°924	12827	5	24°115	22°728
12532	7	9°566	14°538	12606	4	7°090	16°932	12680	5	5°140	18°597	12754	7	14°462	20°355	12828	6	25°412	22°713
12533	5	9°749	14°411	12607	4	7°118	16°881	12681	4	6°367	18°686	12755	9	14°488	20°182	12829	7	0°201	23°082
12534	5	10°555	14°929	12608	4	7°399	16°216	12682	4	6°975	18°691	12756	7	14°872	20°158	12830	9	0°435	23°651
12535	14	10°961	14°524	12609	6	8°117	16°663	12683	6	7°526	18°594	12757	7	15°550	20°735	12831	5	2°847	23°872

12843	7	11'446	23'523	13057	9	5'792	1'080	13131	4	16'598	2'291	13205	4	15'978	3'733
12844	9	13'211	23'823	13058	5	6'027	1'924	13132	4	16'881	2'615	13206	4	16'438	3'976
12845	9	13'880	23'800	13059	10	6'760	1'788	13133	9	16'954	2'448	13207	6	16'545	3'725
12846	4	14'626	23'110	13060	11	7'189	1'916	13134	12	16'965	2'180	13208	4	16'820	3'296
12847	5	14'765	23'934	13061	13	7'489	1'158	13135	8	17'058	2'059	13209	5	18'378	3'569
12848	5	14'935	23'645	13062	5	7'723	1'192	13136	10	17'307	2'318	13210	10	18'536	3'206
12849	10	15'423	23'238	13063	7	8'000	1'123	13137	8	17'673	2'277	13211	6	18'587	3'256
12850	7	17'378	23'869	13064	9	8'337	1'469	13138	5	18'215	2'864	13212	7	18'785	3'950
12851	11	17'914	23'774	13065	6	8'351	1'621	13139	9	18'484	2'725	13213	5	19'156	3'608
12852	10	18'606	23'596	13066	9	9'149	1'250	13140	7	18'964	2'430	13214	4	19'365	3'649
12853	10	19'944	23'152	13067*	35	9'682	1'240	13141	24	18'972	2'846	13215	4	19'628	3'407
12854	4	20'156	23'035	13068	7	10'173	1'310	13142	28	19'327	2'956	13216	7	19'737	3'138
12855	4	22'547	23'280	13069	7	10'745	1'864	13143	8	19'908	2'395	13217	5	20'669	3'018
12856	11	22'669	23'742	13070	8	11'186	1'361	13144	6	19'927	2'004	13218	8	21'676	3'733
12857	8	24'615	23'842	13071	5	11'246	1'157	13145	4	20'172	2'615	13219*	33	21'708	3'456
12858	5	25'076	23'036	13072	6	12'247	1'518	13146	12	20'237	2'094	13220	8	21'736	3'654
12859	14	2'620	24'651	13073	7	12'738	1'456	13147	10	20'284	2'806	13221	8	21'796	3'006
12860*	25	4'279	24'164	13074	10	13'170	1'086	13148	4	20'691	2'498	13222	5	22'669	3'210
12861	13	4'591	24'921	13075*	39	13'826	1'712	13149	5	20'945	2'558	13223	5	23'040	3'503
12862	13	5'761	24'936	13076	4	13'966	1'312	13150	12	21'136	2'887	13224	11	23'417	3'556
12863	7	6'548	24'985	13077	7	14'459	1'080	13151	13	21'405	2'008	13225	5	23'547	3'163
12864	4	7'175	24'931	13078	11	14'844	1'537	13152	8	21'511	2'395	13226	5	25'019	3'949
12865	10	10'027	24'665	13079	7	15'846	1'825	13153	4	21'664	2'969	13227	10	25'698	3'967
12866*	23	10'074	24'850	13080	10	16'657	1'478	13154	6	21'956	2'923	13228	22	0'005	4'425
12867	4	10'135	24'343	13081	20	17'799	1'057	13155	4	22'465	2'896	13229	4	0'399	4'231
12868	6	10'905	24'418	13082	4	18'536	1'004	13156	7	22'533	2'344	13230	8	1'565	4'884
12869	7	10'941	24'737	13083	6	19'985	1'337	13157	9	23'558	2'556	13231	4	2'115	4'051
12870	15	10'980	24'282	13084	14	20'273	1'665	13158	4	23'704	2'954	13232	7	2'724	4'308
12871	7	13'291	24'459	13085	7	21'659	1'613	13159	6	25'074	2'214	13233	7	3'055	4'736
12872	15	15'815	24'708	13086	7	23'145	1'202	13160	11	25'471	2'540	13234	11	3'715	4'393
12873	7	15'986	24'135	13087	8	23'383	1'779	13161	6	0'278	3'632	13235	5	4'193	4'581
12874	21	16'133	24'290	13088	17	23'994	1'254	13162	4	1'537	3'296	13236	17	4'224	4'928
12875	5	17'464	24'936	13089	15	0'104	2'114	13163	18	1'872	3'432	13237	5	4'427	4'727
12876	7	18'374	24'209	13090	5	0'117	2'832	13164*	23	2'013	3'490	13238	5	4'707	4'859
12877	9	18'412	24'364	13091	10	0'362	2'314	13165	10	2'115	3'524	13239	6	6'650	4'721
12878	5	19'314	24'472	13092	7	1'429	2'655	13166	5	2'844	3'255	13240	6	7'055	4'222
12879	9	19'456	24'214	13093	7	1'612	2'381	13167	6	3'194	3'943	13241	4	7'163	4'718
12880	13	20'571	24'633	13094	5	1'712	2'581	13168	5	3'195	3'087	13242	12	7'735	4'706
12881*	40	21'927	24'619	13095	4	1'764	2'409	13169	11	3'294	3'104	13243	6	8'458	4'829
12882	7	23'235	24'216	13096	4	1'785	2'724	13170	7	3'444	3'234	13244	4	8'467	4'772
12883	5	23'469	24'090	13097	14	1'953	2'233	13171	9	3'567	3'695	13245	13	8'832	4'475
12884	8	25'595	24'561	13098	4	3'288	2'530	13172	5	4'841	3'222	13246	4	8'949	4'290
12885	7	1'111	25'999	13099	7	4'418	2'916	13173	4	4'970	3'404	13247	4	9'164	4'223
12886	5	1'705	25'954	13100	10	4'851	2'676	13174	4	5'775	3'277	13248	7	9'987	4'638
12887	4	6'937	25'839	13101	6	5'274	2'314	13175	7	6'062	3'768	13249	4	10'415	4'295
12888	4	7'718	25'690	13102	5	5'697	2'265	13176	7	6'105	3'845	13250	6	11'306	4'657
12889	7	8'100	25'226	13103	4	6'314	2'703	13177	4	6'146	3'462	13251	4	11'384	4'481
12890	6	8'255	25'209	13104	7	7'103	2'338	13178	11	6'417	3'200	13252	4	11'391	4'245
12891	14	9'221	25'623	13105	6	7'281	2'484	13179	12	6'870	3'286	13253	5	11'436	4'441
12892	7	10'248	25'545	13106	7	7'376	2'687	13180	13	7'367	3'862	13254	10	11'926	4'857
12893	11	10'508	25'998	13107	4	7'407	2'467	13181	4	7'814	3'509	13255	4	12'571	4'358
12894	6	10'680	25'190	13108	4	7'435	2'746	13182	5	8'181	3'322	13256	4	12'889	4'030
12895	10	11'463	25'195	13109	9	7'496	2'621	13183	5	9'155	3'580	13257	4	13'026	4'728
12896	8	14'161	25'099	13110	4	7'876	2'245	13184	6	9'276	3'292	13258	4	13'184	4'784
12897	5	16'157	25'016	13111	6	8'186	2'771	13185	5	9'296	3'914	13259	6	13'193	4'834
12898	13	19'266	25'228	13112	7	8'645	2'073	13186	4	9'343	3'921	13260	6	13'225	4'238
12899	5	19'349	25'869	13113	11	9'384	2'564	13187	7	9'378	3'848	13261	5	13'496	4'098
12900	6	20'573	25'903	13114	17	9'411	2'260	13188	10	9'385	3'152	13262	4	13'502	4'028
12901	7	20'584	25'176	13115	7	10'071	2'270	13189	4	9'426	3'829	13263	4	13'679	4'904
12902	7	22'714	25'803	13116	4	10'212	2'007	13190	6	10'606	3'015	13264	5	13'726	4'957
				13117	7	11'381	2'310	13191	7	10'679	3'153	13265	12	13'765	4'751
				13118	6	11'486	2'505	13192	6	10'844	3'060	13266	6	14'224	4'526
				13119	7	11'840	2'414	13193	7	11'099	3'724	13267	4	14'263	4'286
				13120	4	12'087	2'156	13194	4	11'206	3'715				

13279	21	18°870	4°863	13353	14	20°736	5°137	13427	4	0°191	7°096	13501	4	19°035	7°593	13575	7	16°034	8°417
13280*	19	18°878	4°923	13354	7	20°952	5°686	13428	15	0°356	7°566	13502	7	19°245	7°997	13576	6	16°461	8°052
13281	4	19°364	4°728	13355	9	21°066	5°820	13429	9	1°107	7°415	13503	5	19°287	7°159	13577	4	16°747	8°642
13282	12	20°252	4°876	13356	22	21°379	5°046	13430	7	1°175	7°502	13504	15	19°398	7°763	13578	9	16°825	8°151
13283	7	21°088	4°624	13357	8	21°485	5°604	13431	7	1°226	7°007	13505	6	19°667	7°893	13579	8	17°024	8°214
13284	4	21°357	4°475	13358	7	21°526	5°437	13432	4	1°364	7°437	13506	4	20°185	7°112	13580	4	17°615	8°796
13285	5	21°879	4°309	13359	7	21°718	5°028	13433	7	1°755	7°702	13507	4	20°285	7°109	13581	4	18°129	8°320
13286	4	21°965	4°756	13360	8	22°432	5°576	13434	4	1°942	7°061	13508	6	20°904	7°883	13582	4	18°407	8°092
13287	4	22°654	4°857	13361	5	22°523	5°268	13435	5	2°241	7°305	13509	7	21°082	7°839	13583	17	18°861	8°022
13288	6	24°146	4°624	13362	5	22°632	5°530	13436	7	2°345	7°977	13510	7	21°936	7°334	13584	15	19°436	8°578
13289	5	24°343	4°813	13363	8	22°831	5°426	13437	8	2°958	7°616	13511	4	23°068	7°908	13585	5	20°248	8°683
13290	4	24°532	4°856	13364	5	23°074	5°030	13438	4	3°345	7°359	13512	6	23°236	7°156	13586	5	20°542	8°540
13291	5	0°225	5°814	13365	13	23°366	5°444	13439	5	3°852	7°030	13513	7	23°327	7°327	13587	6	20°805	8°233
13292	8	0°805	5°665	13366	5	24°072	5°295	13440	20	4°327	7°148	13514	9	23°632	7°795	13588	4	20°813	8°760
13293	15	0°872	5°559	13367	8	24°236	5°217	13441	13	5°094	7°824	13515	15	24°940	7°009	13589	6	20°906	8°653
13294	5	1°618	5°082	13368	14	24°384	5°895	13442	5	5°267	7°267	13516	11	25°115	7°787	13590	8	20°965	8°617
13295	6	2°425	5°005	13369	7	24°983	5°915	13443	5	5°444	7°602	13517	5	0°115	8°695	13591	13	23°054	8°882
13296*	24	3°348	5°901	13370	16	25°304	5°025	13444	5	5°490	7°229	13518	10	1°437	8°373	13592	7	23°084	8°806
13297	4	4°975	5°723	13371	5	2°250	6°345	13445	6	5°681	7°929	13519	8	1°496	8°781	13593	4	23°299	8°759
13298	8	5°006	5°252	13372	8	2°815	6°727	13446	4	5°968	7°152	13520	7	2°328	8°673	13594	16	23°875	8°885
13299	7	5°115	5°720	13373*	30	2°894	6°726	13447	5	5°985	7°581	13521	4	2°461	8°842	13595	7	24°097	8°527
13300	4	5°447	5°421	13374*	25	4°856	6°292	13448	8	6°020	7°555	13522	12	3°527	8°510	13596	13	24°315	8°321
13301	4	5°523	5°063	13375	6	6°162	6°337	13449	8	6°164	7°152	13523	8	3°618	8°536	13597	22	0°380	9°530
13302	4	5°798	5°625	13376	7	7°013	6°291	13450	10	6°175	7°852	13524	4	3°740	8°189	13598	8	0°446	9°156
13303	4	5°857	5°469	13377	5	7°081	6°741	13451	6	6°181	7°531	13525	4	4°515	8°362	13599	4	0°618	9°701
13304	5	6°143	5°494	13378	12	7°405	6°536	13452	4	6°402	7°601	13526	8	4°596	8°665	13600	8	1°065	9°102
13305	9	6°815	5°138	13379	4	7°976	6°924	13453	4	6°656	7°786	13527	6	5°154	8°091	13601	18	1°265	9°478
13306	4	7°332	5°855	13380	12	9°097	6°315	13454	5	6°707	7°620	13528	24	5°656	8°714	13602	6	1°466	9°196
13307	8	7°632	5°201	13381	5	9°740	6°763	13455	4	6°734	7°666	13529	11	5°683	8°640	13603	9	1°514	9°347
13308	12	7°723	5°873	13382	4	9°833	6°617	13456	5	6°772	7°399	13530*	27	5°696	8°724	13604	6	1°917	9°522
13309	6	7°927	5°485	13383	18	10°561	6°471	13457	10	6°976	7°509	13531	8	5°914	8°516	13605	7	2°501	9°364
13310	4	7°950	5°317	13384	10	10°652	6°931	13458*	43	7°223	7°864	13532	5	6°186	8°043	13606	4	2°597	9°885
13311	9	8°372	5°629	13385	4	11°044	6°242	13459	16	7°277	7°801	13533	16	6°226	8°934	13607	5	3°187	9°135
13312	8	8°412	5°536	13386	10	11°385	6°522	13460	14	7°605	7°431	13534	10	6°242	8°903	13608	4	3°325	9°484
13313	11	8°685	5°509	13387	5	11°597	6°602	13461	5	7°901	7°262	13535	7	6°341	8°125	13609	6	3°544	9°688
13314	7	8°815	5°125	13388	16	11°829	6°877	13462	7	7°950	7°642	13536	4	6°406	8°213	13610	5	4°233	9°364
13315	4	8°845	5°905	13389	4	12°182	6°104	13463	6	8°009	7°435	13537	4	6°667	8°591	13611	8	4°284	9°038
13316	12	9°727	5°246	13390	9	12°624	6°345	13464	11	8°136	7°438	13538	4	7°315	8°503	13612	4	4°387	9°747
13317	10	9°755	5°018	13391	5	13°572	6°306	13465	6	8°177	7°962	13539	9	7°354	8°922	13613	5	5°709	9°893
13318	4	9°784	5°045	13392	4	13°711	6°156	13466	4	8°192	7°419	13540	7	7°785	8°975	13614	17	5°752	9°639
13319	6	10°248	5°696	13393	5	14°339	6°058	13467	6	8°737	7°346	13541	7	7°932	8°345	13615	4	6°408	9°307
13320	5	10°370	5°810	13394	6	14°486	6°677	13468	6	9°362	7°670	13542	9	8°185	8°725	13616	4	6°446	9°576
13321	5	10°836	5°985	13395	8	15°202	6°205	13469	7	10°037	7°387	13543	11	8°363	8°946	13617	4	6°487	9°385
13322	4	10°883	5°793	13396	5	15°204	6°527	13470	5	10°095	7°829	13544	5	8°481	8°271	13618	5	6°516	9°167
13323	5	11°344	5°160	13397	11	15°237	6°865	13471	9	10°925	7°872	13545	6	8°824	8°294	13619	13	6°571	9°625
13324	5	11°856	5°494	13398	7	15°443	6°432	13472	9	10°926	7°342	13546	7	8°965	8°530	13620	6	6°619	9°558
13325	4	12°394	5°893	13399	8	15°639	6°104	13473	7	11°247	7°023	13547	11	9°274	8°445	13621	13	7°054	9°064
13326	11	12°712	5°021	13400	6	15°861	6°385	13474	11	11°561	7°134	13548	4	9°411	8°090	13622	10	7°483	9°369
13327	14	12°842	5°978	13401	4	16°131	6°503	13475	10	11°889	7°726	13549	8	9°786	8°077	13623	10	7°638	9°675
13328	4	13°369	5°561	13402	9	16°277	6°164	13476	5	12°463	7°145	13550	4	10°054	8°817	13624	9	7°886	9°377
13329	12	13°444	5°249	13403	5	16°434	6°367	13477	13	12°843	7°364	13551	4	10°300	8°441	13625	9	7°995	9°590
13330	8	13°565	5°371	13404	13	16°809	6°101	13478	5	12°969	7°908	13552	5	10°408	8°806	13626	6	8°024	9°332
13331	7	13°735	5°158	13405	8	17°022	6°345	13479	4	13°015	7°574	13553	4	11°809	8°982	13627	9	8°590	9°059
13332	5	13°951	5°641	13406	11	17°116	6°944	13480	4	13°193	7°150	13554	4	12°243	8°770	13628	8	8°796	9°127
13333	5	13°985	5°673	13407	14	17°465	6°442	13481	7	13°461	7°820	13555	5	12°332	8°025	13629	9	8°986	9°941
13334	16	14°055	5°006	13408	6	17°631	6°085	13482	4	13°592	7°799	13556	7	12°415	8°200	13630	4	9°478	9°726
13335	6	15°526	5°442	13409	7	17°679	6°521	13483	7	13°983	7°160	13557	4	12°586	8°563	13631	5	9°549	9°547
13336	9	16°033	5°345	13410*	36	17°778	6°248	13484	4	14°270	7°817	13558	8	12°700	8°267	13632	14	9°596	9°711
13337	7	16°117	5°853	13411	4	18°035	6°632	13485	14	14°398	7°567	13559	10	12°846	8°769	13633	26	9°905	9°577
13338	4	16°122	5°665	13412	6	18°406	6°278	13486	8	14°699	7°391	13560	7	13°013	8°924	13634	7	10°761	9°546
13339	8	16°214	5°126	13413	5	18°625	6°221	13487	4	14°974	7°576	13561	5	13°138	8°395	13635	6	10°851	9°973
13340	5	16°465	5°827	13414	9	19°103	6°092	13488	21	15°402	7°757	13562	6	13°405	8°095	13636	8	11°796	9°584
13341	5	17°290	5°891	13415	6	19°199	6°486	13489	14	15°623	7°272	13563	7	13°654	8°264	13637	4	11°848	9°234
13342	4	17°519	5°303	13416	4	19°499	6°098	13490	4	16°026	7°375	13564	7	13°916	8°834	13638	5	11°889	9°646
13343	6	17°792	5°447	13417	19	19°657	6°094	13491	7	16°051	7°431	13565	5	13°976	8°165				

13649	4	15°074	9°548	13723	6	13°774	10°338	13797	4	15°016	11°954	13871*	39	13°157	12°254	13945	6	8°737	13°705
13650	5	15°394	9°689	13724	8	13°816	10°698	13798	4	15°195	11°077	13872	4	13°681	12°368	13946	4	9°046	13°176
13651	4	15°696	9°488	13725	4	13°906	10°220	13799	6	15°214	11°468	13873	5	13°805	12°919	13947	6	9°191	13°725
13652	4	15°998	9°164	13726	21	14°295	10°142	13800	6	15°856	11°149	13874	4	14°190	12°324	13948	4	9°294	13°539
13653	19	16°032	9°250	13727	7	14°365	10°993	13801	5	16°590	11°276	13875	8	14°412	12°845	13949	5	9°335	13°925
13654	6	16°605	9°185	13728	8	14°812	10°011	13802*	39	16°885	11°386	13876	8	14°504	12°047	13950	10	9°507	13°204
13655	4	16°735	9°149	13729	4	15°358	10°845	13803	15	17°012	11°324	13877	6	14°523	12°309	13951	4	10°601	13°902
13656	6	17°593	9°405	13730	4	15°435	10°699	13804	12	17°155	11°786	13878	11	14°574	12°095	13952	8	10°735	13°375
13657	5	17°873	9°462	13731	4	15°449	10°025	13805	10	17°685	11°400	13879	4	14°887	12°124	13953	6	10°915	13°236
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13659	7	18°744	9°339	13733	11	16°154	10°618	13807	4	18°312	11°520	13881	5	15°211	12°264	13955	4	11°914	13°290
13660	8	19°040	9°873	13734	6	16°208	10°309	13808	5	19°186	11°013	13882	14	15°391	12°770	13956	12	12°012	13°535
13661	22	20°353	9°235	13735	17	16°458	10°834	13809	6	19°456	11°887	13883	6	15°622	12°454	13957	6	12°046	13°458
13662	4	20°382	9°746	13736	5	16°575	10°153	13810	6	20°598	11°885	13884	4	16°098	12°543	13958	7	12°304	13°313
13663	4	21°251	9°031	13737	5	16°750	10°885	13811	7	20°687	11°576	13885	7	16°347	12°275	13959	5	12°446	13°637
13664	8	21°338	9°431	13738	4	17°556	10°232	13812	5	20°785	11°612	13886	26	17°000	12°486	13960	4	12°705	13°121
13665	4	21°905	9°359	13739	4	18°182	10°134	13813	6	21°477	11°201	13887	5	17°016	12°135	13961	4	13°046	13°283
13666	4	22°195	9°556	13740	5	19°037	10°746	13814	6	21°958	11°571	13888	5	17°525	12°137	13962	4	14°134	13°490
13667	7	22°383	9°727	13741	24	19°095	10°950	13815	4	22°558	11°348	13889	5	17°633	12°715	13963	4	14°183	13°375
13668	5	22°605	9°533	13742	22	19°163	10°696	13816	8	23°115	11°834	13890	4	17°815	12°294	13964	9	14°194	13°712
13669	6	22°671	9°461	13743	7	19°450	10°530	13817	11	23°242	11°332	13891	6	18°156	12°795	13965	11	14°529	13°554
13670	12	23°113	9°786	13744	4	19°674	10°775	13818	4	23°812	11°064	13892	5	18°260	12°513	13966	5	15°055	13°875
13671	6	23°754	9°135	13745	6	21°863	10°246	13819	9	24°148	11°586	13893	12	18°758	12°409	13967	5	15°474	13°336
13672	4	25°132	9°359	13746	8	22°186	10°514	13820	9	24°512	11°972	13894	6	19°155	12°197	13968	6	15°479	13°568
13673	5	25°422	9°183	13747	6	22°346	10°519	13821	5	0°293	12°299	13895	5	19°344	12°598	13969	4	16°877	13°575
13674	4	25°464	9°410	13748	9	23°200	10°931	13822	5	0°499	12°045	13896	6	19°506	12°825	13970	4	17°095	13°443
13675	5	0°210	10°524	13749	5	23°625	10°272	13823	5	1°042	12°776	13897	6	19°774	12°903	13971	4	17°128	13°071
13676	4	0°996	10°122	13750	5	25°297	10°626	13824	4	1°451	12°862	13898	4	20°275	12°067	13972	9	19°018	13°635
13677	5	1°278	10°391	13751	7	25°628	10°776	13825	6	2°040	12°324	13899	6	20°805	12°129	13973	6	20°460	13°125
13678	5	1°667	10°364	13752	4	1°806	11°433	13826	4	2°475	12°356	13900	7	20°834	12°856	13974	7	21°235	13°674
13679	8	2°217	10°196	13753	4	1°983	11°052	13827	4	2°749	12°747	13901	11	21°219	12°081	13975	5	21°327	13°483
13680	17	2°425	10°139	13754	5	2°165	11°115	13828	6	3°095	12°852	13902	16	21°252	12°264	13976	7	21°445	13°624
13681	8	2°460	10°012	13755	9	2°242	11°393	13829	4	3°344	12°666	13903	4	21°336	12°692	13977	6	21°755	13°045
13682	6	2°932	10°252	13756	6	2°258	11°723	13830	5	3°522	12°013	13904	4	22°417	12°455	13978	10	21°825	13°460
13683	13	3°095	10°374	13757	4	2°285	11°052	13831	4	3°635	12°124	13905	4	23°093	12°049	13979	7	21°839	13°377
13684	15	5°359	10°728	13758	4	2°374	11°393	13832	7	3°644	12°205	13906	4	23°116	12°876	13980	6	21°887	13°058
13685	5	5°385	10°410	13759	27	3°489	11°867	13833	11	3°954	12°977	13907	4	23°426	12°781	13981	5	22°127	13°287
13686	4	5°501	10°876	13760	5	3°660	11°157	13834	6	4°092	12°496	13908	5	23°659	12°916	13982	5	24°156	13°957
13687	4	5°504	10°902	13761	6	4°405	11°623	13835	4	4°274	12°667	13909	14	23°785	12°822	13983	12	24°203	13°688
13688	4	5°600	10°509	13762	6	5°056	11°115	13836	4	4°748	12°639	13910	5	24°705	12°215	13984	16	24°657	13°736
13689	9	6°220	10°389	13763	4	5°862	11°737	13837	5	4°937	12°896	13911	4	24°840	12°981	13985	4	25°155	13°372
13690	4	6°342	10°447	13764	7	5°939	11°264	13838	12	5°217	12°821	13912	22	25°354	12°125	13986	12	0°005	14°745
13691	7	6°696	10°280	13765	13	7°075	11°512	13839	4	5°626	12°746	13913	5	25°715	12°603	13987	6	0°496	14°111
13692	19	6°704	10°641	13766	5	7°382	11°165	13840	4	5°649	12°404	13914	16	0°264	13°754	13988	5	0°609	14°098
13693	8	6°722	10°229	13767	4	7°541	11°677	13841	6	6°244	12°360	13915	5	0°515	13°812	13989	5	0°737	14°347
13694	5	6°764	10°594	13768	14	7°655	11°850	13842	4	6°567	12°961	13916	4	0°788	13°633	13990	4	1°450	14°590
13695	5	7°143	10°490	13769	5	7°821	11°415	13843	7	6°692	12°406	13917	5	1°156	13°096	13991	7	1°735	14°223
13696	4	7°234	10°885	13770	4	7°855	11°601	13844	5	7°387	12°776	13918	7	1°487	13°445	13992	5	1°915	14°128
13697	8	7°494	10°834	13771	6	8°234	11°997	13845	5	7°395	12°446	13919	13	1°666	13°789	13993*	21	2°325	14°701
13698	4	7°524	10°126	13772	5	9°026	11°180	13846	5	7°430	12°838	13920	4	2°505	13°086	13994	7	2°448	14°212
13699	4	7°561	10°445	13773	4	10°027	11°882	13847	7	7°625	12°323	13921	5	2°759	13°451	13995	11	2°849	14°927
13700	4	7°593	10°696	13774	4	10°039	11°841	13848	7	8°336	12°096	13922	6	2°846	13°929	13996	8	2°969	14°373
13701	7	7°625	10°735	13775	7	10°053	11°558	13849	5	8°534	12°627	13923	12	3°296	13°175	13997	15	3°126	14°606
13702	10	7°740	10°385	13776	10	10°584	11°175	13850	7	8°545	12°310	13924	5	3°364	13°238	13998	9	3°215	14°118
13703	4	7°905	10°899	13777	10	10°965	11°837	13851	8	8°754	12°664	13925	8	4°636	13°481	13999	8	4°042	14°545
13704	5	8°438	10°655	13778	5	11°172	11°435	13852	4	9°083	12°638	13926	4	4°968	13°408	14000	10	4°061	14°162
13705	8	8°605	10°314	13779	8	11°273	11°426	13853	4	9°211	12°665	13927	7	5°005	13°135	14001	6	4°090	14°844
13706	7	8°865	10°303	13780	7	11°300	11°833	13854	7	9°290	12°276	13928	4	6°045	13°519	14002	4	4°246	14°890
13707	4	8°953	10°381	13781	5	11°656	11°056	13855	5	9°550	12°460	13929	7	6°124	13°956	14003	7	4°638	14°959
13708	14	9°507	10°771	13782	8	12°114	11°709	13856	4	9°855	12°765	13930	8	6°249	13°376	14004	5	5°222	14°492
13709	5	9°865	10°204	13783	8	12°296	11°806	13857	4	9°886	12°727	13931	4	6°279	13°323	14005	5	5°381	14°883
13710	6	9°880	10°848	13784	11	12°398	11°330	13858	15	10°053	12°551	13932	5	6°325	13°530	14006	12	5°408	14°974
13711	7	10°956	10°745	13785	6	12°400	11°050	13859	5	10°085	12°378	13933	11	6°396	13°544	14007	4	5°920	14°310
13712	4	11°410	10°804	13786	5	12													

14019	5	8.485	14.814	14093	4	10.235	15.129	14167	8	7.630	16.873	14241	4	1.213	17.901	14315	8	1.044	18.844
14020	8	9.818	14.226	14094	5	10.614	15.263	14168*	30	7.869	16.616	14242	5	1.797	17.293	14316	13	1.066	18.437
14021	11	10.092	14.645	14095	4	11.040	15.328	14169	6	8.266	16.967	14243	7	1.972	17.406	14317	4	1.277	18.700
14022	11	10.419	14.889	14096	4	11.233	15.699	14170	9	8.346	16.465	14244	6	2.585	17.705	14318	5	1.378	18.526
14023	7	10.493	14.035	14097	4	11.384	15.206	14171	8	8.500	16.335	14245	7	2.779	17.060	14319	7	1.403	18.146
14024	5	10.560	14.822	14098	6	11.475	15.414	14172	4	8.675	16.263	14246	4	3.885	17.905	14320	4	1.585	18.648
14025	6	11.137	14.152	14099	8	11.652	15.311	14173	4	8.756	16.745	14247	8	4.441	17.775	14321	4	1.826	18.603
14026	4	11.614	14.292	14100	7	11.792	15.705	14174	4	8.936	16.142	14248	6	4.616	17.792	14322	4	1.999	18.084
14027	5	11.728	14.038	14101	4	12.190	15.823	14175	16	9.085	16.955	14249	11	5.283	17.435	14323	6	2.166	18.386
14028	4	11.762	14.632	14102	6	12.691	15.270	14176	6	9.380	16.366	14250	5	5.854	17.297	14324	14	2.589	18.595
14029	14	12.155	14.247	14103	4	12.934	15.802	14177	5	9.828	16.278	14251	5	5.945	17.455	14325	6	2.607	18.837
14030	17	12.395	14.424	14104	6	13.285	15.342	14178	5	9.846	16.990	14252	12	6.165	17.889	14326	5	2.634	18.932
14031	4	12.418	14.960	14105	4	13.360	15.941	14179	5	9.955	16.377	14253	8	6.215	17.831	14327	5	3.025	18.339
14032	5	12.693	14.450	14106	13	13.398	15.677	14180	4	10.105	16.221	14254	6	6.413	17.359	14328	4	3.033	18.901
14033	8	13.143	14.268	14107	6	13.476	15.224	14181	8	10.155	16.184	14255	9	6.763	17.926	14329*	23	3.076	18.945
14034	5	13.279	14.388	14108	8	13.576	15.647	14182	8	10.155	16.886	14256	5	6.925	17.823	14330	9	3.905	18.440
14035	5	13.511	14.731	14109	4	13.833	15.739	14183	9	10.167	16.010	14257	8	7.286	17.424	14331	8	4.035	18.873
14036	12	13.617	14.349	14110	6	14.033	15.069	14184	4	10.627	16.631	14258	10	7.684	17.341	14332	23	4.635	18.372
14037	11	14.179	14.767	14111	5	14.474	15.928	14185	5	11.633	16.351	14259	13	7.797	17.899	14333	4	4.816	18.585
14038	10	14.384	14.558	14112*	24	14.818	15.539	14186	4	11.666	16.233	14260	5	7.972	17.311	14334	4	4.875	18.550
14039	11	14.723	14.082	14113	11	14.982	15.709	14187	6	11.946	16.195	14261	6	8.235	17.537	14335	8	4.949	18.095
14040	5	15.032	14.154	14114	4	15.197	15.611	14188	4	12.372	16.276	14262	4	8.333	17.666	14336	7	5.345	18.526
14041	5	15.249	14.775	14115	21	15.413	15.360	14189	11	12.435	16.823	14263	6	8.485	17.775	14337	5	5.666	18.801
14042	5	16.043	14.834	14116	10	16.324	15.191	14190	11	12.606	16.594	14264	5	8.805	17.587	14338	8	5.695	18.342
14043*	27	17.006	14.440	14117	7	16.329	15.488	14191	13	12.766	16.420	14265	6	8.936	17.569	14339	4	5.711	18.526
14044	7	17.196	14.950	14118	8	16.545	15.050	14192	14	12.805	16.284	14266	6	8.955	17.186	14340	11	5.867	18.281
14045	6	17.625	14.433	14119	5	16.603	15.729	14193	4	12.880	16.498	14267	10	9.349	17.866	14341	4	6.255	18.680
14046	4	17.657	14.220	14120	11	16.750	15.882	14194	7	13.029	16.787	14268	7	9.674	17.356	14342	4	6.292	18.453
14047	4	17.685	14.117	14121	15	17.055	15.025	14195	4	13.075	16.013	14269	13	9.755	17.576	14343	4	6.430	18.897
14048	4	18.656	14.208	14122	4	17.481	15.826	14196	7	13.347	16.313	14270	11	9.793	17.449	14344	12	6.540	18.898
14049	12	18.680	14.053	14123	6	17.665	15.286	14197	8	13.384	16.034	14271	5	9.888	17.844	14345	5	6.730	18.805
14050	4	18.894	14.433	14124	19	17.984	15.961	14198	6	13.396	16.670	14272	11	9.946	17.692	14346	4	6.774	18.936
14051	6	18.980	14.964	14125*	14	18.086	15.004	14199	17	13.722	16.835	14273	4	10.172	17.657	14347	7	7.098	18.819
14052	4	19.627	14.102	14126	4	18.100	15.943	14200	11	14.603	16.700	14274	13	10.341	17.546	14348	4	7.185	18.855
14053	4	20.178	14.787	14127	6	19.792	15.735	14201	15	15.007	16.946	14275	5	10.628	17.069	14349	6	7.555	18.862
14054	5	20.247	14.943	14128	5	20.192	15.207	14202	6	15.182	16.287	14276	6	11.252	17.259	14350	19	7.595	18.868
14055	11	20.645	14.155	14129	4	20.473	15.296	14203	7	15.212	16.054	14277	6	11.284	17.090	14351	6	7.649	18.258
14056	6	22.215	14.367	14130	4	20.946	15.281	14204	6	15.539	16.653	14278	4	11.678	17.198	14352	4	7.695	18.105
14057	4	22.667	14.949	14131	4	22.502	15.236	14205	7	15.705	16.427	14279	6	11.883	17.018	14353	4	7.936	18.844
14058	13	24.466	14.635	14132	4	23.529	15.573	14206	6	15.776	16.918	14280	6	12.205	17.306	14354	7	8.275	18.566
14059	8	24.593	14.071	14133	7	23.665	15.297	14207	4	16.025	16.688	14281	4	12.451	17.387	14355	6	8.635	18.175
14060	5	24.946	14.940	14134	4	23.712	15.323	14208	6	16.025	16.545	14282	7	12.454	17.662	14356	4	8.835	18.623
14061	7	25.313	14.757	14135	12	23.892	15.049	14209	12	16.045	16.666	14283	5	12.816	17.996	14357	7	9.139	18.735
14062	14	25.420	14.479	14136	5	24.005	15.365	14210	13	16.115	16.199	14284	9	13.006	17.416	14358	4	9.831	18.462
14063	7	0.034	15.519	14137	16	24.198	15.895	14211	4	16.127	16.164	14285	9	13.026	17.696	14359	4	9.863	18.757
14064	11	0.083	15.905	14138	4	25.195	15.145	14212	6	16.467	16.082	14286	7	13.332	17.071	14360	6	10.197	18.774
14065	4	0.087	15.275	14139	5	0.205	16.547	14213	7	17.224	16.969	14287	8	14.152	17.448	14361	7	10.533	18.148
14066	4	0.641	15.609	14140	12	0.434	16.790	14214	5	17.306	16.569	14288	12	14.259	17.599	14362	4	10.884	18.726
14067*	30	0.915	15.520	14141	10	0.526	16.396	14215	4	17.779	16.984	14289	9	14.624	17.325	14363	6	10.917	18.396
14068	6	1.281	15.682	14142	14	0.576	16.408	14216	4	17.905	16.152	14290	7	14.846	17.597	14364	10	11.740	18.888
14069	9	1.645	15.647	14143	4	1.730	16.270	14217	7	17.905	16.032	14291	5	15.007	17.207	14365	4	11.965	18.338
14070	4	2.012	15.811	14144	8	1.836	16.465	14218	7	18.370	16.728	14292	4	15.142	17.940	14366	10	12.325	18.435
14071	6	2.033	15.669	14145	4	2.166	16.387	14219	4	18.599	16.105	14293	4	15.849	17.468	14367	5	12.360	18.349
14072	5	2.452	15.102	14146	6	2.305	16.389	14220	7	18.946	16.544	14294	15	16.156	17.319	14368	7	12.783	18.457
14073	6	2.568	15.175	14147	9	3.666	16.633	14221	4	19.105	16.553	14295	5	16.487	17.209	14369	6	12.906	18.796
14074	4	2.854	15.319	14148	5	3.906	16.656	14222	10	19.492	16.360	14296	4	17.386	17.507	14370	6	12.954	18.869
14075	5	3.068	15.243	14149	4	3.927	16.717	14223	4	19.710	16.627	14297	5	17.390	17.687	14371	4	13.567	18.729
14076*	22	3.421	15.482	14150	6	4.124	16.328	14224	9	20.120	16.677	14298	5	17.946	17.594	14372	15	13.693	18.264
14077	5	5.045	15.180	14151	10	4.292	16.227	14225	5	20.155	16.886	14299	11	18.906	17.436	14373	6	14.465	18.048
14078	4	5.472	15.400	14152	4	4.513	16.049	14226	5	21.355	16.223	14300	6	19.126	17.576	14374	5	14.638	18.043
14079	6	5.786	15.839	14153	5	4.676	16.033	14227	14	21.429	16.219	14301	4	19.186	17.510	14375	10	16.141	18.339
14080	6	6.525	15.131	14154	11	4.924	16.440	14228	5	21.641	16.417	14302	5	20.086	17.075	14376	8	16.185	18.606
14081	8	6.756	15.650	14155	7	5.585	16.620	14229	9	21.645	16.494	14303*	23	22.036	17.459	14377	14	16.230	18.022
140																			

14389	4	19'432	18'746	14463	10	17'593	19'710	14537	15	10'316	20'589	14611	6	9'330	21'606	14685	9	8'376	22'741
14390	5	20'700	18'089	14464	4	18'047	19'454	14538	5	10'732	20'246	14612	4	9'495	21'875	14686	4	8'395	22'904
14391	5	21'086	18'820	14465	11	18'115	19'623	14539	6	10'754	20'648	14613	9	9'868	21'382	14687	4	8'764	22'685
14392	12	21'211	18'619	14466	4	19'213	19'795	14540	5	10'812	20'397	14614	6	10'256	21'677	14688	10	9'196	22'887
14393	13	21'786	18'788	14467	4	19'844	19'113	14541	6	11'312	20'895	14615	7	10'803	21'978	14689	4	9'224	22'073
14394	5	22'027	18'549	14468	5	21'848	19'069	14542	12	11'506	20'322	14616	5	10'925	21'959	14690*	30	9'710	22'215
14395	5	22'566	18'180	14469	9	21'976	19'449	14543	4	11'716	20'652	14617	6	11'073	21'571	14691	4	9'928	22'435
14396	5	22'722	18'887	14470	10	22'066	19'574	14544	5	13'107	20'272	14618	7	11'241	21'569	14692	5	10'799	22'164
14397	4	23'269	18'450	14471	4	22'332	19'919	14545	6	13'243	20'624	14619	8	11'356	21'231	14693	6	10'835	22'495
14398	4	23'377	18'613	14472	4	22'567	19'768	14546	7	13'346	20'871	14620	6	11'535	21'632	14694	6	11'208	22'168
14399	12	24'132	18'285	14473	10	22'601	19'083	14547	4	13'455	20'982	14621	8	11'576	21'845	14695	6	11'255	22'691
14400	5	24'431	18'514	14474	8	23'350	19'295	14548	7	13'825	20'007	14622	8	12'772	21'365	14696	6	11'639	22'649
14401	4	24'776	18'574	14475	4	23'624	19'949	14549	5	13'915	20'815	14623	11	13'003	21'423	14697	24	11'774	22'192
14402	14	0'625	19'436	14476	8	24'705	19'659	14550	10	14'015	20'331	14624	6	13'211	21'090	14698	15	11'855	22'726
14403	7	1'126	19'536	14477	18	24'784	19'143	14551	6	14'180	20'730	14625	19	13'383	21'625	14699	10	12'048	22'603
14404	7	1'497	19'584	14478	10	24'927	19'005	14552	6	14'446	20'049	14626	7	13'535	21'547	14700	11	12'184	22'770
14405	5	1'517	19'815	14479	8	24'936	19'016	14553	16	15'101	20'824	14627	9	13'566	21'118	14701	5	12'906	22'067
14406	10	1'644	19'784	14480	5	0'924	20'144	14554	6	15'466	20'836	14628	11	13'790	21'398	14702	10	13'527	22'882
14407	11	2'290	19'314	14481	12	1'066	20'415	14555	13	15'621	20'895	14629	5	13'856	21'422	14703	4	13'563	22'982
14408	16	2'429	19'172	14482	7	1'574	20'595	14556	5	15'845	20'689	14630	8	14'411	21'516	14704	6	13'706	22'235
14409	5	2'796	19'314	14483	5	1'995	20'922	14557	5	16'872	20'833	14631	4	14'974	21'834	14705	7	14'175	22'157
14410	5	2'923	19'191	14484	6	2'054	20'394	14558	6	17'497	20'481	14632	4	15'018	21'836	14706	4	14'177	22'499
14411*	12	3'404	19'407	14485	5	2'142	20'296	14559	10	17'609	20'064	14633	4	15'196	21'626	14707	6	14'266	22'105
14412	14	3'417	19'622	14486	4	2'208	20'289	14560	9	17'734	20'179	14634	5	15'365	21'951	14708	4	14'336	22'922
14413	4	3'469	19'387	14487	5	2'483	20'060	14561	5	18'666	20'556	14635	11	15'385	21'405	14709	5	14'814	22'402
14414	12	3'616	19'682	14488	4	2'514	20'081	14562	7	20'375	20'154	14636	4	16'245	21'812	14710	5	15'075	22'753
14415	7	4'015	19'733	14489	6	2'916	20'651	14563	4	20'535	20'723	14637	6	16'354	21'947	14711	5	15'499	22'552
14416	4	4'034	19'167	14490	6	3'185	20'884	14564	6	20'886	20'851	14638	4	16'640	21'865	14712	4	15'687	22'838
14417	8	4'495	19'578	14491	6	3'616	20'267	14565	23	21'229	20'900	14639	5	16'846	21'183	14713	4	15'753	22'372
14418	4	4'500	19'104	14492	5	3'657	20'080	14566	4	21'937	20'601	14640	14	17'182	21'514	14714	14	17'005	22'999
14419	4	4'635	19'081	14493	5	3'673	20'896	14567	6	22'555	20'264	14641	7	17'517	21'698	14715	13	17'464	22'465
14420	13	5'195	19'111	14494	7	3'815	20'413	14568*	18	22'695	20'411	14642	9	18'286	21'877	14716	12	17'806	22'576
14421	4	5'330	19'020	14495	4	3'879	20'769	14569	7	22'900	20'371	14643	5	18'907	21'358	14717	4	19'745	22'279
14422	6	5'484	19'356	14496	4	3'916	20'465	14570	4	22'968	20'727	14644	9	18'954	21'937	14718	5	20'016	22'915
14423	4	5'609	19'266	14497	7	4'085	20'956	14571	5	22'992	20'845	14645	7	19'777	21'464	14719*	24	20'441	22'099
14424	6	5'739	19'491	14498	7	4'154	20'510	14572	6	23'025	20'074	14646	11	20'600	21'250	14720	12	20'961	22'214
14425	4	5'924	19'895	14499	19	4'181	20'356	14573	6	23'675	20'311	14647	4	20'676	21'566	14721	7	21'157	22'712
14426	10	6'126	19'452	14500	4	4'255	20'656	14574*	26	24'130	20'466	14648	8	21'054	21'282	14722	14	21'365	22'648
14427	5	6'137	19'696	14501	5	4'375	20'038	14575	6	24'484	20'783	14649	5	21'455	21'910	14723	4	22'425	22'211
14428	4	6'723	19'650	14502	5	4'453	20'515	14576	5	0'123	21'775	14650*	25	21'733	21'115	14724	4	22'538	22'125
14429	5	6'954	19'597	14503	5	4'836	20'155	14577	6	0'205	21'435	14651	5	21'889	21'144	14725	5	23'187	22'106
14430	7	6'956	19'765	14504	5	5'303	20'865	14578	5	0'744	21'438	14652	7	21'927	21'263	14726	5	23'296	22'924
14431	9	7'228	19'095	14505	4	5'337	20'218	14579	4	1'755	21'983	14653	13	24'051	21'881	14727	5	23'906	22'178
14432	9	7'529	19'237	14506	12	5'395	20'327	14580	5	2'237	21'347	14654	5	24'657	21'306	14728	4	0'344	23'612
14433	4	7'795	19'576	14507	12	5'650	20'879	14581	5	2'552	21'585	14655	11	24'736	21'596	14729	5	0'427	23'182
14434	12	8'174	19'055	14508	14	5'683	20'780	14582	17	2'596	21'215	14656	22	0'045	22'674	14730	4	0'505	23'166
14435	5	8'390	19'396	14509	4	5'915	20'620	14583	11	2'739	21'944	14657	22	1'528	22'164	14731	5	0'992	23'246
14436	10	8'554	19'178	14510	4	6'398	20'960	14584	7	3'005	21'345	14658	6	2'105	22'191	14732	7	1'395	23'488
14437	4	8'777	19'649	14511	6	6'444	20'849	14585	5	3'057	21'355	14659	6	2'105	22'237	14733	8	1'725	23'164
14438	7	8'850	19'046	14512	4	6'735	20'501	14586	7	3'132	21'783	14660	4	2'328	22'802	14734	4	2'521	23'624
14439	4	8'865	19'575	14513	4	6'794	20'417	14587	8	3'615	21'582	14661	4	2'602	22'075	14735	5	3'036	23'604
14440	13	9'599	19'594	14514	4	6'961	20'904	14588	7	3'642	21'924	14662	7	2'654	22'044	14736	5	3'866	23'681
14441	25	10'294	19'492	14515	5	7'164	20'505	14589	4	3'650	21'050	14663	8	2'819	22'359	14737	4	4'428	23'667
14442	11	10'454	19'835	14516*	33	7'165	20'760	14590	5	3'726	21'227	14664	5	3'659	22'271	14738	4	4'495	23'907
14443	4	10'590	19'648	14517	5	7'362	20'128	14591	4	4'479	21'899	14665	5	3'891	22'690	14739	4	4'688	23'806
14444	13	10'750	19'985	14518	5	7'436	20'826	14592*	46	4'484	21'122	14666	4	4'285	22'666	14740	4	5'233	23'590
14445	7	10'865	19'154	14519	12	7'484	20'272	14593	10	5'176	21'052	14667	13	4'398	22'910	14741	5	5'415	23'397
14446	5	11'116	19'363	14520	4	7'596	20'502	14594	4	5'254	21'218	14668	4	4'425	22'292	14742	11	5'492	23'157
14447	7	11'284	19'724	14521	4	7'604	20'550	14595	6	6'014	21'733	14669	4	4'710	22'085	14743	14	5'556	23'674
14448	12	11'446	19'931	14522	4	7'908	20'162	14596	5	6'088	21'366	14670	5	4'903	22'590	14744	5	5'745	23'404
14449	7	11'529	19'296	14523	9	8'031	20'827	14597	5	6'563	21'999	14671	8	4'996	22'554	14745	5	6'054	23'091
14450	6	12'534	19'561	14524	6	8'041	20'200	14598	5	6'571	21'144	14672	16	5'979	22'572	14746	6	6'133	23'494
14451	5	13'143	19'339	14525	13	8'098	20'741	14599	4	6'799	21'784	14673	7	6'012	22'743	14747	4	6'298	23'277
14452	7	13'447	19'																

14759	4	9°015	23°564	14833	6	10°903	24°800	14907	13	14°264	25°099	15026	8	22°213	1°562	15100	4	11°519	5°670
14760	5	9°103	23°409	14834	4	11°265	24°108	14908	6	14°636	25°677	15027*	28	23°912	1°013	15101	10	11°535	5°125
14761	7	10°244	23°345	14835*	45	12°670	24°245	14909	19	14°902	25°742	15028	12	24°301	1°854	15102*	14	11°774	5°578
14762	4	10°442	23°793	14836	9	13°285	24°762	14910	5	15°591	25°837	15029	7	1°362	2°455	15103	5	11°903	5°775
14763	4	10°707	23°812	14837	6	13°287	24°463	14911	4	16°713	25°115	15030	6	3°591	2°505	15104*	17	12°072	5°451
14764	4	10°916	23°821	14838	6	13°314	24°575	14912	16	16°871	25°563	15031*	27	3°864	2°696	15105	4	12°140	5°244
14765	6	11°165	23°828	14839	6	13°375	24°260	14913	4	16°876	25°500	15032	6	11°466	2°183	15106	8	12°827	5°757
14766	11	11°239	23°094	14840	6	13°585	24°245	14914	9	17°491	25°161	15033	9	13°151	2°280	15107	4	13°151	5°398
14767	12	11°390	23°537	14841	4	13°602	24°834	14915	5	17°554	25°058	15034	6	14°990	2°405	15108	5	16°046	5°178
14768	4	11°462	23°909	14842	7	13°630	24°083	14916*	31	17°840	25°776	15035	6	15°483	2°918	15109	14	16°341	5°860
14769	4	11°509	23°128	14843	13	13°804	24°455	14917	10	17°964	25°618	15036	10	19°435	2°339	15110	6	17°016	5°356
14770	8	12°274	23°937	14844	16	13°893	24°545	14918	4	18°307	25°127	15037	5	20°027	2°825	15111	8	17°361	5°714
14771	14	12°695	23°535	14845	4	15°314	24°242	14919*	29	19°127	25°314	15038	5	20°256	2°431	15112	8	17°911	5°225
14772	4	13°281	23°119	14846	6	15°454	24°120	14920	6	19°650	25°912	15039	6	20°275	2°844	15113	5	18°118	5°738
14773	5	13°477	23°753	14847	7	15°467	24°341	14921	7	19°713	25°155	15040	6	22°195	2°197	15114	5	19°868	5°492
14774	5	13°512	23°862	14848	5	15°724	24°050	14922	4	20°536	25°296	15041	8	22°388	2°457	15115	21	21°270	5°226
14775	8	13°766	23°483	14849	8	15°848	24°889	14923	6	20°596	25°622	15042	7	24°409	2°578	15116	7	22°570	5°219
14776	4	13°813	23°595	14850	4	16°193	24°572	14924	15	20°845	25°206	15043*	21	25°503	2°836	15117	4	22°624	5°770
14777	12	13°924	23°559	14851	17	16°382	24°253	14925	15	21°174	25°289	15044	7	1°626	3°879	15118*	31	25°960	5°825
14778	8	13°985	23°694	14852	4	16°687	24°534	14926	5	21°226	25°821	15045	6	3°775	3°945	15119	13	0°935	6°939
14779	6	14°335	23°814	14853	5	16°837	24°426	14927	5	21°515	25°123	15046	12	4°215	3°214	15120	7	3°228	6°130
14780	11	14°856	23°468	14854	8	16°894	24°015	14928	4	21°578	25°046	15047	10	8°334	3°505	15121*	12	5°327	6°810
14781	4	14°889	23°272	14855	7	16°977	24°977	14929	11	21°835	25°601	15048*	14	8°535	3°113	15122	6	6°700	6°377
14782	6	15°033	23°653	14856*	25	17°344	24°600	14930	10	22°313	25°488	15049	8	8°759	3°329	15123*	28	7°144	6°279
14783	6	15°824	23°371	14857*	25	17°384	24°608	14931	4	24°225	25°130	15050	10	11°946	3°102	15124	6	11°255	6°814
14784	10	16°445	23°968	14858	4	17°451	24°366					15051	6	12°007	3°755	15125	6	19°077	6°223
14785	6	16°714	23°077	14859	4	17°924	24°458					15052	11	12°529	3°380	15126	4	21°615	6°542
14786	4	17°523	23°741	14860	4	18°174	24°719					15053	13	14°634	3°820	15127	10	21°690	6°771
14787	5	18°575	23°995	14861	4	18°410	24°756					15054*	15	14°636	3°791	15128	6	22°034	6°896
14788	7	18°779	23°118	14862*	24	18°664	24°806					15055	6	15°441	3°443	15129	6	23°081	6°449
14789	7	18°922	23°267	14863	5	18°714	24°944					15056	10	15°490	3°144	15130	9	25°742	6°289
14790	4	19°375	23°560	14864	13	18°898	24°669					15057	10	15°685	3°653	15131	8	1°126	7°711
14791	7	19°675	23°226	14865	5	18°925	24°015					15058*	18	16°413	3°815	15132	8	2°649	7°037
14792	6	20°187	23°703	14866	4	19°140	24°160					15059	9	17°771	3°562	15133	9	2°848	7°834
14793	5	20°189	23°660	14867	8	19°437	24°338					15060*	17	19°596	3°320	15134	11	7°227	7°405
14794	9	20°639	23°068	14868	4	19°901	24°128					15061*	24	20°187	3°510	15135	6	8°208	7°602
14795	11	22°417	23°045	14869	18	20°089	24°435					15062*	38	21°375	3°694	15136	9	11°022	7°682
14796	5	22°245	23°361	14870	4	20°367	24°090					15063	13	21°788	3°591	15137	5	12°179	7°267
14797	9	24°638	23°528	14871	4	21°710	24°077					15064	11	22°221	3°925	15138	11	13°469	7°024
14798	4	24°816	23°084	14872	8	22°845	24°068					15065	9	22°266	3°839	15139	8	15°976	7°029
14799	5	0°316	24°523	14873	6	23°265	24°033					15066	9	23°361	3°859	15140	5	17°717	7°219
14800	9	0°931	24°295	14874	7	24°516	24°526					15067	14	24°023	3°980	15141	7	18°775	7°978
14801	7	1°029	24°704	14875	6	24°740	24°927					15068	11	24°860	3°511	15142	10	20°247	7°245
14802	6	1°773	24°547	14876	16	25°646	24°766					15069	17	25°758	3°223	15143	6	20°956	7°348
14803	6	1°937	24°505	14877	8	25°740	24°833					15070	14	1°254	4°946	15144	7	21°073	7°815
14804	4	2°203	24°875	14878	5	1°908	25°156					15071	8	2°760	4°820	15145	15	21°602	7°801
14805	5	2°270	24°315	14879	10	1°919	25°111					15072	9	2°955	4°202	15146	6	22°242	7°117
14806	6	2°510	24°422	14880	7	3°488	25°582					15073	18	8°173	4°379	15147	7	22°655	7°895
14807	14	2°924	24°314	14881	4	3°565	25°115					15074	6	8°990	4°343	15148	6	23°541	7°708
14808	13	4°383	24°139	14882	4	3°669	25°585					15075	9	9°735	4°752	15149	8	24°353	7°123
14809	6	4°628	24°083	14883	12	4°313	25°095					15076	13	10°708	4°071	15150	14	25°528	7°850
14810	4	4°693	24°428	14884	4	5°193	25°454					15077	8	14°556	4°581	15151	4	0°129	8°474
14811	6	4°951	24°439	14885	4	6°432	25°302					15078	4	14°740	4°192	15152	11	0°340	8°264
14812	4	5°377	24°672	14886	7	6°437	25°808					15079	9	15°795	4°484	15153	5	2°873	8°551
14813	4	5°476	24°089	14887	6	7°300	25°095					15080	6	17°512	4°033	15154	13	4°138	8°293
14814	4	5°483	24°116	14888	4	8°156	25°266					15081*	20	18°669	4°615	15155	5	7°085	8°183
14815	5	5°792	24°779	14889	12	8°156	25°890					15082	8	19°065	4°926	15156	14	7°790	8°862
14816	7	5°937	24°565	14890	4	8°334	25°725					15083	12	20°380	4°175	15157	8	8°391	8°655
14817	6	6°082	24°953	14891	5	9°017	25°815					15084	9	20°509	4°310	15158	10	8°950	8°397
14818	4	6°382	24°977	14892	7	9°295	25°969					15085	5	20°544	4°782	15159*	23	11°360	8°460
14819	8	6°639	24°095	14893	4	9°379	25°536					15086	5	21°326	4°190	15160	7	13°021	8°225
14820	7	7°196	24°363	14894	5	9°517	25°810					15087	7	22°060	4°129	15161	9	13°399	8°411
14821	5	7°235	24°712	14895	6	9°538	25°145					15088	8	23°341	4°293	15162	6	14°790	8°695
14822*	38	8°156	24°820	14896*	27	10°607	25°594					15089	12	23°352	4°079	15163	13	14°840	8°925
14823	7	8°514	24°416	14897*	22	10°900	25°380					15090	16	23°760	4°734	15164	13	16°180	8°657
14824	8	8°631	24°782	14898	10	10°913	25°710					15091	5	23°779	4°646	15165	6	18°358	8°570
14825	6	8°672	24°787	14899	4	11°295	25°862					15092	4	24°845	4°175	15166	15	18°832	8°789
14826	6	8°802	24°369	14900	4	12°246	25°666					15093	5	25°075	4°149	15167	7	19°724	8°878
14827	11	8°947	24°540	14901															

15174	11	25°37'2	8°34'9	15248	6	3°39'6	12°9'83	15322	7	6°15'1	15°8'20	15396	4	16°35'0	18°0'89	15470	8	16°33'6	22°8'21
15175	6	25°59'4	8°27'0	15249	7	3°59'4	12°55'7	15323	6	6°75'6	15°9'73	15397	7	16°54'1	18°27'2	15471	5	19°57'1	22°78'4
15176	5	25°63'0	8°16'5	15250	13	6°05'9	12°9'97	15324	9	7°89'6	15°8'78	15398	8	18°30'6	18°9'19	15472	7	21°97'6	22°17'5
15177	4	25°66'2	8°9'07	15251	7	6°23'1	12°8'36	15325	5	10°35'6	15°6'54	15399	6	19°19'2	18°47'5	15473	5	23°41'6	22°38'7
15178	8	4°20'5	9°33'5	15252	6	7°16'6	12°88'9	15326	5	10°48'5	15°19'0	15400	10	19°9'60	18°8'55	15474	10	23°76'4	22°55'0
15179	11	4°71'6	9°44'5	15253	14	7°56'7	12°44'5	15327	9	10°93'3	15°6'05	15401	6	22°76'9	18°88'3	15475*	40	2°53'7	23°98'7
15180	12	6°38'4	9°64'6	15254	5	9°12'4	12°34'0	15328	5	13°29'8	15°29'9	15402	8	23°44'3	18°9'35	15476	8	4°78'5	23°85'0
15181	7	6°55'6	9°58'9	15255	9	9°89'7	12°77'9	15329	12	13°34'4	15°66'8	15403	5	23°60'6	18°36'0	15477	9	5°21'0	23°72'0
15182	10	7°54'6	9°81'7	15256	10	13°04'4	12°39'8	15330*	31	15°19'6	15°52'1	15404*	22	23°62'9	18°45'1	15478	9	7°45'0	23°12'0
15183	12	8°69'7	9°84'5	15257	7	17°62'5	12°50'5	15331	8	15°38'2	15°34'0	15405	6	23°96'5	18°93'4	15479	11	7°55'6	23°31'1
15184	5	9°77'6	9°52'7	15258	9	18°36'3	12°99'0	15332	14	15°42'9	15°57'9	15406	9	24°61'8	18°03'4	15480	4	7°66'5	23°71'6
15185	11	10°40'4	9°36'0	15259	8	19°16'3	12°75'5	15333*	20	15°66'0	15°50'2	15407	6	25°32'0	18°45'8	15481	8	9°32'4	23°79'0
15186	4	10°44'4	9°71'9	15260	5	19°23'0	12°70'6	15334	15	15°84'4	15°89'0	15408*	36	25°54'0	18°32'8	15482	11	9°61'0	23°63'4
15187	7	11°93'1	9°05'0	15261	8	22°94'2	12°47'2	15335	5	16°93'5	15°89'5	15409	15	25°55'8	18°33'6	15483	9	11°41'0	23°35'5
15188	4	14°04'1	9°33'0	15262	6	23°30'9	12°78'4	15336	8	20°08'5	15°34'4	15410	4	0°97'6	19°59'5	15484	4	13°84'1	23°56'6
15189	7	14°19'6	9°36'0	15263*	14	23°40'8	12°85'8	15337	7	21°43'1	15°11'6	15411	4	4°72'2	19°83'5	15485	5	13°87'9	23°31'4
15190	8	14°22'3	9°48'1	15264	5	23°87'4	12°58'5	15338	8	22°26'3	15°78'2	15412	5	5°62'4	19°42'4	15486*	38	15°98'6	23°32'9
15191	6	14°41'4	9°64'6	15265*	15	24°11'0	12°53'3	15339	15	3°11'5	16°60'8	15413	8	10°02'6	19°60'2	15487	9	17°17'7	23°29'7
15192	5	14°43'0	9°64'5	15266	6	24°54'0	12°33'6	15340	5	4°13'2	16°26'5	15414	9	12°26'2	19°79'1	15488	9	17°40'7	23°89'8
15193	12	15°33'2	9°07'3	15267	10	0°34'2	13°63'1	15341	12	4°99'5	16°25'0	15415	14	14°12'3	19°54'6	15489	19	17°75'8	23°09'4
15194	14	19°02'5	9°86'6	15268	14	0°80'0	13°67'0	15342	7	9°56'3	16°73'9	15416	13	17°71'7	19°71'5	15490	19	18°24'8	23°62'5
15195	5	19°51'9	9°97'1	15269	4	5°31'5	13°59'3	15343	11	11°07'6	16°67'9	15417	6	18°84'3	19°91'5	15491	5	19°32'4	23°31'0
15196	5	19°69'8	9°49'8	15270	6	5°32'1	13°64'3	15344	4	12°24'5	16°39'5	15418	5	19°46'9	19°41'0	15492	5	21°93'5	23°64'6
15197	5	20°21'5	9°00'6	15271	10	9°78'0	13°85'4	15345	9	15°32'3	16°86'7	15419	9	21°82'0	19°02'9	15493	4	22°96'7	23°53'8
15198	6	20°54'3	9°48'0	15272*	24	10°78'8	13°42'9	15346	6	15°47'6	16°60'7	15420	5	22°76'4	19°32'2	15494	12	2°03'2	24°67'9
15199	21	20°60'3	9°47'8	15273	11	10°80'2	13°43'0	15347*	25	15°87'9	16°33'0	15421*	20	0°42'1	20°41'1	15495	4	2°12'7	24°74'1
15200	14	20°69'8	9°84'8	15274	5	12°97'3	13°13'8	15348	10	16°47'3	16°15'6	15422	6	3°14'6	20°36'7	15496	11	7°52'3	24°21'6
15201	5	21°67'8	9°31'8	15275	5	14°03'4	13°52'3	15349	5	17°46'0	16°76'0	15423	11	3°15'8	20°74'0	15497	5	8°07'6	24°64'7
15202	7	21°85'5	9°83'7	15276	4	16°14'2	13°62'6	15350	5	18°63'6	16°12'7	15424	8	4°90'4	20°40'3	15498	13	8°31'5	24°30'5
15203	17	22°84'0	9°21'5	15277	9	17°49'6	13°74'6	15351	5	18°95'5	16°88'8	15425	8	4°99'4	20°42'5	15499	13	8°32'5	24°66'2
15204	10	24°22'7	9°44'6	15278	5	17°58'0	13°92'0	15352	4	19°67'2	16°06'1	15426	13	6°38'4	20°23'7	15500	4	10°93'0	24°61'6
15205	5	1°70'8	10°69'1	15279	5	19°19'2	13°63'2	15353	7	19°70'5	16°16'0	15427	4	8°04'9	20°38'9	15501*	17	12°65'8	24°31'5
15206	5	2°29'0	10°35'6	15280*	13	19°57'1	13°98'4	15354	7	20°15'0	16°98'0	15428	5	8°69'9	20°26'2	15502*	26	13°70'0	24°73'0
15207	7	2°74'7	10°12'5	15281	7	19°97'5	13°07'2	15355	7	21°11'7	16°14'6	15429	12	11°02'5	20°33'4	15503	4	14°54'0	24°92'1
15208	11	4°00'6	10°51'0	15282*	38	20°35'7	13°22'3	15356	7	21°77'3	16°56'8	15430	5	14°32'2	20°12'5	15504	4	14°56'5	24°25'5
15209	5	5°07'7	10°60'9	15283	13	20°71'0	13°60'9	15357	8	23°13'1	16°15'6	15431	14	16°59'8	20°78'6	15505	14	15°41'1	24°23'6
15210	5	6°34'1	10°58'5	15284*	26	22°44'2	13°82'6	15358	5	23°34'1	16°83'7	15432	14	17°04'2	20°80'9	15506	13	17°07'5	24°16'8
15211	7	9°54'4	10°49'9	15285	6	22°86'5	13°01'6	15359	12	23°94'3	16°46'3	15433	5	19°39'0	20°19'0	15507	5	17°21'0	24°08'1
15212	14	9°88'2	10°64'1	15286	7	23°04'0	13°18'7	15360	11	24°34'5	16°79'4	15434	10	22°87'8	20°62'9	15508	9	17°98'9	24°08'8
15213	8	10°92'6	10°90'8	15287	6	23°68'9	13°84'6	15361	10	24°64'5	16°02'2	15435*	14	25°22'6	20°33'1	15509	5	19°41'1	24°55'9
15214	4	13°89'2	10°21'1	15288	8	23°85'0	13°82'1	15362	10	25°06'0	16°06'1	15436	12	25°35'0	20°38'1	15510	7	20°32'5	24°46'3
15215	4	17°98'0	10°10'9	15289	12	24°16'5	13°11'0	15363	5	25°52'4	16°73'2	15437	10	0°37'2	21°82'8	15511	6	20°39'6	24°64'7
15216	4	18°12'3	10°14'8	15290	10	24°35'1	13°66'9	15364	8	25°58'3	16°07'9	15438	9	1°05'3	21°52'8	15512	4	21°93'6	24°35'3
15217	11	18°87'5	10°07'1	15291	6	24°47'5	13°54'5	15365	6	4°73'1	17°75'1	15439*	14	5°43'7	21°81'0	15513	5	22°07'8	24°39'8
15218	13	19°51'7	10°75'8	15292	5	24°63'0	13°27'5	15366	11	8°20'8	17°17'4	15440	9	6°55'0	21°23'6	15514	12	22°44'0	24°36'2
15219	9	19°78'5	10°82'9	15293	6	24°81'4	13°09'6	15367*	17	8°85'7	17°35'9	15441	13	8°56'0	21°72'5	15515	5	23°38'4	24°01'0
15220	9	20°93'9	10°80'6	15294	5	25°20'3	13°61'0	15368	6	12°16'5	17°02'9	15442	8	10°01'0	21°21'6	15516	10	2°51'2	25°82'0
15221	4	22°20'7	10°89'8	15295	11	0°62'8	14°57'3	15369	10	13°22'9	17°68'1	15443*	17	10°54'0	21°54'7	15517	16	5°77'7	25°93'1
15222	10	22°56'6	10°31'4	15296	5	0°74'2	14°00'6	15370	8	14°44'7	17°87'5	15444	10	10°64'0	21°42'1	15518	13	5°79'3	25°93'4
15223	4	22°78'9	10°21'1	15297	5	1°48'0	14°67'7	15371	6	15°22'5	17°86'0	15445	6	11°51'6	21°73'1	15519	4	6°84'1	25°07'3
15224	13	22°95'0	10°34'1	15298	12	1°57'9	14°39'5	15372	5	16°77'6	17°81'4	15446	4	14°02'4	21°85'4	15520	5	7°20'5	25°41'5
15225	18	23°20'5	10°88'2	15299	9	3°30'6	14°92'6	15373	10	17°45'3	17°45'5	15447	6	15°34'3	21°05'8	15521*	29	7°85'6	25°49'3
15226	9	24°10'6	10°70'0	15300	10	3°32'4	14°63'6	15374	9	18°01'3	17°45'8	15448	7	17°43'8	21°24'6	15522	5	10°25'5	25°98'6
15227	6	0°24'1	11°53'2	15301	5	4°12'1	14°72'5	15375	9	18°04'9	17°48'1	15449	8	17°53'5	21°09'6	15523	5	13°20'0	25°97'4
15228	8	0°61'5	11°91'0	15302	15	6°60'2	14°94'0	15376	5	19°38'0	17°35'6	15450	12	17°84'8	21°55'8	15524	5	13°59'6	25°34'2
15229	9	3°35'2	11°31'8	15303	6	7°99'1	14°50'0	15377	4	19°41'5	17°70'9	15451	10	18°03'1	21°83'5	15525	6	14°69'8	25°55'8
15230	15	4°24'4	11°94'5	15304	7	11°20'7	14°03'4	15378	5	20°14'3	17°74'5	15452	7	18°70'0	21°20'2	15526	6	15°17'6	25°62'5
15231	13	5°17'7	11°05'7	15305	5	11°50'0	14°31'0	15379	4	20°73'7	17°75'4	15453	9	19°73'2	21°76'4	15527	6	16°51'3	25°75'9
15232	5	10°23'8	11°83'3	15306	10	14°46'0	14°75'0	15380	8	20°78'6	17°96'9	15454	5	19°81'6	21°55'3	15528	9	17°13'5	25°64'0
15233	11	11°23'5	11°32'0	15307	6	15°68'5	14°44'3	15381	4	22°80'0	17°20'7	15455	5	21°84'2	21				

15953	8	20.469	6.053	16027	12	4.600	8.843	16101	7	17.164	9.067	16175	9	5.555	11.465	16249	10	16.672	12.939
15954	12	20.872	6.684	16028	13	5.000	8.326	16102	22	17.270	9.067	16176	11	5.600	11.435	16250	10	18.094	12.761
15955	10	21.737	6.123	16029	11	6.405	8.913	16103	10	17.650	9.111	16177	25	6.343	11.015	16251	10	18.407	12.449
15956	12	22.083	6.465	16030	11	7.595	8.418	16104	17	18.961	9.485	16178	9	7.466	11.563	16252	10	18.447	12.285
15957	15	22.259	6.252	16031	11	7.777	8.717	16105	9	19.209	9.372	16179	20	7.772	11.432	16253	22	18.512	12.931
15958	8	23.118	6.657	16032	12	8.170	8.447	16106	9	19.410	9.410	16180	11	8.325	11.712	16254	20	18.891	12.933
15959	12	23.699	6.748	16033	8	9.367	8.715	16107*	27	19.598	9.881	16181	12	8.695	11.038	16255	9	19.035	12.485
15960	7	23.852	6.735	16034	22	10.865	8.543	16108	10	20.549	9.274	16182	7	8.696	11.390	16256	7	19.148	12.366
15961	24	25.468	6.882	16035	12	11.427	8.188	16109	10	21.389	9.989	16183	10	9.011	11.650	16257	8	19.588	12.809
15962	12	25.847	6.648	16036	10	11.657	8.898	16110	14	21.527	9.740	16184	10	9.255	11.005	16258	11	20.385	12.200
15963	17	25.926	6.747	16037	10	12.596	8.529	16111	16	23.467	9.227	16185	12	9.549	11.076	16259	12	20.475	12.680
15964	12	0.174	7.402	16038	11	12.808	8.687	16112	12	23.769	9.791	16186	10	9.915	11.869	16260	13	21.157	12.027
15965	12	3.218	7.117	16039	9	13.940	8.791	16113	10	23.816	9.471	16187	8	10.636	11.040	16261	10	21.385	12.270
15966	13	3.953	7.843	16040	10	14.631	8.631	16114*	37	24.233	9.301	16188	8	12.409	11.530	16262	10	22.055	12.121
15967	11	4.136	7.755	16041	10	15.299	8.521	16115	10	25.866	9.586	16189	12	12.639	11.180	16263	10	22.076	12.852
15968	8	4.214	7.879	16042	9	16.031	8.918	16116	11	2.459	10.188	16190	10	12.652	11.062	16264	11	22.124	12.593
15969	17	4.477	7.424	16043	8	16.439	8.961	16117	22	3.350	10.003	16191	10	13.160	11.178	16265	12	22.155	12.411
15970	10	6.032	7.771	16044	16	16.511	8.638	16118	12	4.645	10.338	16192	10	13.869	11.565	16266	11	22.646	12.353
15971*	26	6.627	7.765	16045	11	16.712	8.182	16119	7	5.066	10.053	16193	9	14.737	11.107	16267	8	22.710	12.638
15972*	26	6.674	7.581	16046	10	17.291	8.010	16120	10	5.441	10.784	16194	11	14.874	11.085	16268	12	23.241	12.335
15973	17	6.687	7.795	16047	22	17.732	8.225	16121	17	6.315	10.416	16195	10	15.626	11.402	16269	14	24.393	12.925
15974	10	6.809	7.641	16048	10	18.095	8.816	16122	9	6.868	10.759	16196	11	16.332	11.889	16270	11	24.938	12.495
15975	6	7.206	7.927	16049	11	18.423	8.175	16123	10	7.112	10.708	16197	10	16.350	11.262	16271	19	25.120	12.912
15976	21	7.897	7.496	16050	11	19.535	8.533	16124	10	8.067	10.583	16198	10	16.660	11.820	16272*	30	25.464	12.858
15977	10	7.996	7.708	16051	11	19.686	8.838	16125	12	8.409	10.914	16199	11	16.911	11.607	16273	17	25.906	12.066
15978	8	8.263	7.753	16052	8	19.951	8.631	16126	10	8.433	10.472	16200	18	17.267	11.818	16274	12	0.064	13.391
15979	9	8.779	7.485	16053	6	20.039	8.728	16127	10	9.710	10.254	16201	15	17.422	11.299	16275	12	0.261	13.949
15980	11	8.785	7.021	16054	12	20.486	8.159	16128*	42	9.786	10.271	16202	11	17.984	11.488	16276	10	0.383	13.822
15981*	24	9.054	7.204	16055	9	20.587	8.078	16129	10	9.895	10.010	16203	8	18.584	11.701	16277	9	0.532	13.550
15982*	8	9.664	7.938	16056	10	20.712	8.124	16130	10	10.042	10.502	16204	10	19.511	11.751	16278	10	0.714	13.369
15983	10	10.283	7.573	16057	10	20.876	8.662	16131	9	10.200	10.319	16205	9	19.540	11.941	16279	10	1.106	13.879
15984	8	10.454	7.789	16058	8	21.019	8.287	16132	8	10.230	10.266	16206	12	19.601	11.533	16280	9	1.836	13.036
15985	9	12.106	7.422	16059	22	22.196	8.972	16133	9	10.830	10.953	16207	15	20.017	11.122	16281	9	2.051	13.212
15986	11	12.317	7.624	16060	11	22.638	8.322	16134	11	11.065	10.674	16208	18	20.506	11.148	16282	14	2.116	13.938
15987	10	12.605	7.300	16061	10	22.691	8.375	16135	10	12.147	10.947	16209	9	20.940	11.911	16283	8	2.396	13.241
15988	18	13.354	7.429	16062	10	23.267	8.972	16136	10	12.657	10.306	16210	9	21.045	11.159	16284	17	3.309	13.424
15989	8	13.637	7.657	16063	18	23.976	8.230	16137	9	12.875	10.255	16211	9	21.406	11.161	16285	9	4.644	13.985
15990	23	13.701	7.580	16064	12	24.877	8.429	16138	11	13.676	10.982	16212	11	21.697	11.414	16286	12	5.613	13.786
15991	10	14.556	7.635	16065	13	0.079	9.727	16139	10	14.060	10.532	16213	10	21.980	11.378	16287*	37	8.973	13.329
15992	10	14.774	7.259	16066	8	1.659	9.743	16140	12	14.114	10.480	16214	10	22.022	11.551	16288	10	9.074	13.734
15993	14	16.448	7.690	16067	10	2.584	9.372	16141	22	14.187	10.081	16215	10	22.096	11.874	16289	10	10.054	13.176
15994	10	17.529	7.551	16068	13	2.929	9.850	16142	13	15.185	10.036	16216	12	22.487	11.658	16290	12	10.257	13.600
15995	16	17.600	7.624	16069	8	3.567	9.566	16143	9	15.504	10.145	16217	9	23.097	11.159	16291	10	10.419	13.300
15996	8	18.124	7.168	16070	7	3.884	9.699	16144	8	15.529	10.126	16218	11	23.470	11.148	16292	9	10.580	13.017
15997	10	18.269	7.903	16071	10	4.231	9.309	16145	12	15.682	10.468	16219	10	25.301	11.236	16293	10	10.975	13.131
15998	10	19.554	7.449	16072	10	4.687	9.268	16146	9	16.751	10.363	16220	11	25.504	11.790	16294	12	13.664	13.000
15999	10	19.569	7.043	16073	9	4.924	9.575	16147	12	16.820	10.100	16221	12	25.920	11.818	16295	12	14.383	13.862
16000	10	19.655	7.593	16074	11	4.975	9.737	16148	7	17.210	10.422	16222*	20	0.000	12.815	16296*	43	14.769	13.923
16001	12	20.744	7.145	16075	10	5.412	9.285	16149	10	17.697	10.898	16223	10	0.430	12.612	16297	13	15.211	13.085
16002	22	21.129	7.680	16076	12	5.450	9.588	16150	12	17.872	10.685	16224	10	2.530	12.000	16298	10	15.339	13.517
16003	8	21.408	7.694	16077	9	5.815	9.388	16151	10	18.348	10.004	16225	10	3.178	12.332	16299	11	16.005	13.214
16004	8	21.596	7.984	16078	10	6.535	9.891	16152	11	19.476	10.656	16226	10	3.380	12.999	16300	20	17.660	13.563
16005	22	21.883	7.761	16079	12	6.596	9.206	16153	10	19.885	10.295	16227	10	4.292	12.031	16301	13	18.508	13.983
16006	11	22.498	7.752	16080	9	7.360	9.867	16154	12	20.171	10.082	16228	15	5.465	12.538	16302	12	18.726	13.972
16007	12	23.582	7.753	16081	9	8.355	9.756	16155	10	20.990	10.254	16229	10	5.811	12.376	16303	8	19.363	13.038
16008	12	23.700	7.769	16082	10	8.705	9.284	16156	14	22.098	10.815	16230	11	6.250	12.682	16304	10	19.734	13.058
16009	10	23.794	7.600	16083	10	9.107	9.230	16157	14	22.208	10.260	16231	9	6.935	12.632	16305	10	20.101	13.457
16010	9	24.147	7.497	16084	10	9.466	9.204	16158	10	22.264	10.881	16232	10	6.946	12.333	16306	10	20.774	13.326
16011	7	24.830	7.338	16085	17	9.581	9.594	16159	11	22.722	10.401	16233	10	7.451	12.186	16307	10	20.965	13.731
16012	13	25.357	7.265	16086	10	9.701	9.443	16160	10	22.752	10.542	16234	12	7.470	12.849	16308	9	21.241	13.440
16013	16	25.703	7.892	16087	23	10.077	9.883	16161	15	23.092	10.140	16235	9	7.858	12.497	16309	8	21.408	13.405
16014	11	25.812	7.104	16088	9	10.705	9.689	16162	13	23.987	10.781	16236	10	8.268	12.548	16310	10	22.171	13.328
16015	12	0.074	8.812	16089	10	11.466	9.307	16163	22	23.988	10.550	16237	11	8.970	12.				

16323	8	4°271	14°094	16397	9	12°456	15°288	16471	10	17°211	16°297	16545	10	3°755	18°503	16619	10	15°661	19°717
16324	12	4°714	14°852	16398	11	12°665	15°627	16472	10	17°232	16°473	16546	12	4°064	18°064	16620	10	15°693	19°308
16325	8	5°183	14°271	16399	9	13°611	15°698	16473	10	18°137	16°499	16547	10	4°333	18°883	16621	14	16°653	19°273
16326	12	5°320	14°302	16400	13	13°731	15°093	16474	9	18°454	16°989	16548	10	4°654	18°816	16622	10	17°009	19°851
16327	25	6°391	14°600	16401	12	14°015	15°585	16475	12	18°497	16°727	16549	13	5°702	18°518	16623	9	17°620	19°176
16328	10	6°711	14°390	16402*	25	15°431	15°685	16476	10	19°301	16°160	16550	18	5°925	18°775	16624	13	19°706	19°169
16329	14	6°894	14°152	16403	10	15°875	15°351	16477	20	19°592	16°370	16551	12	6°085	18°031	16625	9	19°988	19°839
16330	12	7°641	14°430	16404	9	15°902	15°666	16478	10	19°722	16°693	16552	10	6°695	18°038	16626	10	20°650	19°420
16331*	34	8°044	14°962	16405	9	16°591	15°893	16479	10	19°919	16°373	16553	29	6°764	18°504	16627	12	21°031	19°482
16332	16	8°533	14°390	16406	10	17°222	15°211	16480	9	19°960	16°083	16554	9	6°906	18°434	16628	9	21°840	19°569
16333	10	8°925	14°431	16407	9	17°525	15°533	16481	10	20°975	16°100	16555	10	7°871	18°132	16629	10	22°514	19°085
16334	12	8°981	14°899	16408	10	18°684	15°655	16482	10	21°058	16°335	16556	9	7°881	18°842	16630	10	22°755	19°109
16335	18	9°114	14°939	16409	11	18°815	15°343	16483	9	22°263	16°885	16557	10	8°378	18°223	16631	13	23°585	19°961
16336	12	9°547	14°930	16410	10	19°005	15°305	16484	10	22°900	16°880	16558	12	8°419	18°215	16632	20	24°153	19°815
16337	9	9°593	14°448	16411	10	19°355	15°848	16485	14	23°397	16°577	16559	10	8°861	18°126	16633	20	24°265	19°648
16338	9	10°737	14°427	16412	12	19°628	15°356	16486	10	23°575	16°070	16560	12	9°465	18°387	16634	10	24°794	19°243
16339	12	10°739	14°354	16413	9	19°664	15°841	16487	10	23°676	16°168	16561	8	9°473	18°087	16635	20	25°770	19°790
16340	8	10°774	14°298	16414*	22	20°636	15°035	16488	10	23°886	16°195	16562	12	9°538	18°837	16636*	22	1°220	20°599
16341	10	12°224	14°268	16415	11	21°264	15°141	16489	10	24°510	16°878	16563	10	9°915	18°953	16637	20	1°345	20°649
16342	11	12°475	14°940	16416	9	21°555	15°272	16490	9	24°787	16°219	16564	9	9°951	18°434	16638	13	3°108	20°156
16343	9	12°956	14°335	16417	8	21°692	15°730	16491	10	24°984	16°653	16565	10	10°164	18°791	16639	20	3°808	20°479
16344	10	13°139	14°358	16418	8	21°892	15°322	16492	11	25°030	16°610	16566	20	11°011	18°785	16640	13	3°863	20°028
16345	10	13°315	14°981	16419	12	22°200	15°909	16493	12	25°474	16°942	16567	9	11°205	18°843	16641	17	4°833	20°398
16346	10	13°868	14°237	16420	16	22°226	15°150	16494	17	25°754	16°513	16568	19	11°513	18°474	16642	10	5°767	20°304
16347	9	13°947	14°291	16421	10	24°399	15°260	16495	13	0°293	17°073	16569	10	12°093	18°805	16643	10	5°807	20°450
16348	14	14°270	14°462	16422	10	24°558	15°533	16496	10	0°356	17°651	16570	14	12°516	18°234	16644	9	7°259	20°704
16349	18	15°055	14°185	16423	10	25°235	15°365	16497	20	3°701	17°600	16571	12	12°917	18°293	16645	14	7°500	20°267
16350	9	15°191	14°491	16424	11	0°582	16°297	16498	12	3°845	17°963	16572	10	12°963	18°286	16646	22	7°532	20°495
16351	13	15°290	14°506	16425	12	0°999	16°331	16499	13	4°845	17°000	16573	10	13°100	18°538	16647	20	7°869	20°749
16352	13	15°347	14°064	16426	10	1°522	16°342	16500	12	4°913	17°863	16574	10	13°134	18°974	16648	10	8°075	20°858
16353	12	15°395	14°869	16427	10	1°934	16°572	16501	22	6°155	17°674	16575	10	13°634	18°277	16649	9	8°124	20°773
16354	10	16°201	14°889	16428	10	2°227	16°923	16502	20	6°519	17°783	16576	9	13°645	18°088	16650	10	8°381	20°180
16355	9	16°268	14°570	16429	11	2°954	16°655	16503	9	6°692	17°153	16577	10	13°763	18°214	16651	10	9°139	20°914
16356	10	16°588	14°486	16430	12	2°994	16°738	16504	10	7°246	17°682	16578	21	14°146	18°340	16652*	48	9°465	20°948
16357	12	17°339	14°255	16431	11	3°028	16°040	16505	8	7°863	17°479	16579	8	14°281	18°338	16653*	40	10°225	20°419
16358	10	18°315	14°278	16432	22	3°314	16°465	16506	8	7°908	17°705	16580	10	14°764	18°523	16654	9	10°691	20°131
16359	11	18°350	14°640	16433	16	4°266	16°084	16507	12	8°174	17°314	16581	9	16°049	18°560	16655	15	11°045	20°608
16360	10	18°489	14°602	16434	10	4°313	16°300	16508	8	8°355	17°422	16582	19	17°415	18°511	16656	9	11°225	20°297
16361	11	20°150	14°999	16435	7	4°836	16°566	16509	8	8°566	17°516	16583	10	18°817	18°069	16657	19	11°337	20°554
16362	8	20°167	14°509	16436	21	5°406	16°341	16510	8	9°272	17°675	16584	14	19°085	18°891	16658	10	11°425	20°800
16363	8	20°312	14°959	16437	10	5°474	16°184	16511	14	9°382	17°816	16585	10	19°256	18°607	16659	12	11°490	20°682
16364	10	20°475	14°323	16438	10	5°526	16°719	16512	16	10°501	17°553	16586	9	19°418	18°726	16660	12	12°169	20°544
16365	12	20°511	14°386	16439	10	5°988	16°007	16513	9	10°628	17°765	16587	9	19°557	18°623	16661	12	12°470	20°418
16366	12	21°271	14°150	16440	13	6°965	16°035	16514	13	10°735	17°379	16588	10	20°104	18°668	16662	10	12°547	20°275
16367	10	24°231	14°178	16441	10	7°536	16°627	16515	9	11°371	17°714	16589	10	21°104	18°591	16663	10	14°450	20°640
16368	10	24°455	14°740	16442	10	8°187	16°811	16516	10	12°348	17°549	16590	9	21°454	18°593	16664*	32	14°955	20°364
16369	18	25°836	14°713	16443	9	8°275	16°346	16517	9	12°375	17°320	16591	10	21°573	18°355	16665	9	15°135	20°032
16370	10	0°056	15°043	16444	10	8°486	16°246	16518	10	12°844	17°055	16592	9	21°915	18°000	16666	10	15°539	20°412
16371	9	2°073	15°568	16445	7	8°919	16°735	16519	10	12°886	17°429	16593	10	22°317	18°588	16667*	21	15°781	20°801
16372	13	2°697	15°795	16446	10	9°428	16°741	16520	9	13°282	17°618	16594	24	22°331	18°451	16668	9	16°470	20°068
16373	9	2°960	15°071	16447	9	9°840	16°039	16521	11	13°297	17°645	16595	10	22°464	18°460	16669	11	16°504	20°284
16374	10	3°573	15°280	16448	9	10°815	16°940	16522	10	16°055	17°263	16596	9	23°046	18°124	16670	10	16°721	20°710
16375	9	4°400	15°989	16449	10	11°220	16°593	16523	10	16°188	17°820	16597	14	24°530	18°660	16671	10	17°066	20°528
16376	12	4°919	15°378	16450	22	12°043	16°316	16524	10	16°218	17°749	16598	14	25°704	18°023	16672	9	18°058	20°174
16377	12	6°243	15°284	16451	10	12°732	16°648	16525	8	16°733	17°189	16599	12	2°186	19°245	16673	10	18°140	20°502
16378	11	6°248	15°900	16452	12	12°747	16°792	16526	9	16°815	17°897	16600	15	3°645	19°311	16674	8	18°822	20°818
16379	9	6°595	15°799	16453	20	13°128	16°495	16527	10	16°950	17°965	16601	9	5°224	19°220	16675	10	19°195	20°565
16380	12	6°764	15°278	16454	13	13°142	16°361	16528	12	17°095	17°464	16602	10	5°656	19°679	16676	7	19°445	20°653
16381	12	7°025	15°389	16455	21	13°575	16°189	16529	12	18°733	17°380	16603	11	6°695	19°290	16677	10	19°622	20°634
16382	7	7°087	15°566	16456	11	14°445	16°899	16530	10	18°790	17°738	16604	12	6°699	19°266	16678	10	20°550	20°852
16383	9	7°292	15°328	16457	10	14°539	16°328	16531	9	19°448	17°497	16605	18	6°736	19°756	16679	10	21°460	20°306
16384	9	8°326	15°277	16458	11	14°946	16°105	16532	10	19°828	17°970	16606	15	7°207	19°315	16680	10	21°707	20°103
16385	11	8°8																	

16693	13	7°088	21°308	16767*	22	23°873	22°540	16841	12	20°014	24°374	16904	11	6°961	0°596	16978	10	21°212	3°589
16694	12	7°193	21°161	16768	10	24°023	22°990	16842*	12	21°000	24°893	16905	13	7°885	0°271	16979	9	23°387	3°292
16695	22	7°825	21°437	16769	10	24°462	22°896	16843	12	21°063	24°993	16906	11	9°860	0°653	16980	13	0°863	4°207
16696	11	8°253	21°390	16770	11	24°807	22°558	16844	15	22°377	24°920	16907	10	10°787	0°265	16981	13	2°524	4°341
16697	10	8°347	21°915	16771	13	2°093	23°686	16845	20	24°285	24°092	16908	14	11°211	0°897	16982	9	2°672	4°413
16698	9	8°693	21°869	16772	15	3°274	23°207	16846	12	24°852	24°733	16909	10	11°783	0°788	16983	8	2°721	4°249
16699	12	8°700	21°421	16773	12	4°332	23°372	16847	17	24°884	24°578	16910	12	12°209	0°915	16984	9	4°117	4°928
16700	10	8°994	21°406	16774	14	4°383	23°645	16848	12	25°562	24°768	16911	16	12°622	0°216	16985	12	9°185	4°711
16701	20	9°070	21°736	16775*	22	5°226	23°346	16849	19	0°137	25°328	16912	10	15°334	0°383	16986	9	9°842	4°691
16702	15	9°141	21°731	16776	10	9°521	23°359	16850	17	1°233	25°845	16913	13	17°441	0°324	16987	10	10°965	4°783
16703	15	9°285	21°085	16777	10	10°975	23°290	16851	22	2°483	25°691	16914	10	21°815	0°172	16988	10	11°209	4°675
16704	10	10°157	21°835	16778	11	11°039	23°819	16852	33	2°611	25°009	16915*	17	22°541	0°997	16989	9	12°000	4°405
16705	8	10°814	21°269	16779	9	11°426	23°418	16853	24	2°866	25°618	16916	16	24°664	0°794	16990	10	12°226	4°879
16706	12	11°527	21°835	16780	10	11°785	23°480	16854	39	2°905	25°084	16917	15	0°492	1°676	16991*	33	12°857	4°917
16707	10	11°758	21°153	16781	7	12°062	23°599	16855	33	3°343	25°439	16918*	81	1°137	1°133	16992	9	13°182	4°777
16708	15	12°101	21°774	16782	10	12°627	23°058	16856*	39	3°699	25°045	16919*	34	1°657	1°752	16993	9	14°075	4°301
16709	9	12°934	21°132	16783	10	12°810	23°704	16857	19	4°515	25°303	16920	10	6°729	1°875	16994	11	15°619	4°306
16710	10	13°085	21°202	16784	13	13°873	23°267	16858	18	6°033	25°951	16921	13	7°244	1°587	16995	10	18°284	4°580
16711	10	13°095	21°611	16785	10	13°924	23°731	16859	10	7°074	25°612	16922	22	8°338	1°613	16996	10	18°513	4°089
16712	9	13°183	21°918	16786	10	15°440	23°102	16860	12	7°245	25°235	16923	11	10°536	1°608	16997	12	20°953	4°425
16713	9	14°222	21°708	16787	8	16°394	23°540	16861	10	7°344	25°146	16924	10	10°679	1°808	16998	9	21°192	4°219
16714*	30	14°259	21°910	16788	15	16°560	23°749	16862	9	7°426	25°110	16925	10	11°633	1°664	16999*	11	22°006	4°895
16715	10	14°639	21°682	16789	10	17°186	23°193	16863	11	8°212	25°755	16926	10	12°923	1°669	17000	19	25°965	4°405
16716	9	15°253	21°327	16790	10	17°221	23°500	16864	13	8°384	25°487	16927	10	15°363	1°518	17001	10	2°549	5°025
16717	9	16°254	21°656	16791	10	17°388	23°838	16865	11	8°436	25°805	16928	20	17°173	1°438	17002	22	5°258	5°574
16718	9	16°439	21°555	16792	9	17°439	23°060	16866	11	9°387	25°364	16929	11	19°633	1°770	17003	9	6°556	5°457
16719	20	17°068	21°548	16793	13	18°000	23°325	16867	11	9°892	25°996	16930	14	19°672	1°725	17004	9	6°791	5°598
16720	13	17°288	21°953	16794	12	18°325	23°111	16868	11	10°504	25°948	16931	12	20°976	1°129	17005	11	10°553	5°293
16721	11	18°835	21°033	16795	8	18°527	23°932	16869*	21	10°729	25°360	16932*	9	23°889	1°295	17006	10	10°922	5°061
16722	10	19°783	21°692	16796	12	19°450	23°585	16870*	32	10°891	25°403	16933	11	24°132	1°418	17007	11	11°294	5°597
16723	9	20°820	21°731	16797	10	19°594	23°466	16871	12	11°253	25°061	16934	15	25°330	1°484	17008	11	16°662	5°974
16724	10	22°464	21°780	16798	14	19°655	23°658	16872	10	11°646	25°634	16935	10	1°899	2°128	17009	12	18°430	5°345
16725	10	22°837	21°822	16799	10	20°004	23°102	16873*	32	11°709	25°201	16936	11	2°488	2°112	17010	18	18°671	5°769
16726	10	23°514	21°071	16800	19	20°425	23°638	16874	12	11°956	25°894	16937	20	4°465	2°764	17011	11	18°707	5°975
16727	12	23°883	21°558	16801	10	20°546	23°219	16875	10	12°708	25°108	16938	14	4°923	2°559	17012	9	19°578	5°648
16728	19	23°884	21°341	16802	10	21°025	23°322	16876	11	12°919	25°396	16939	11	6°420	2°295	17013*	48	21°300	5°101
16729	19	24°012	21°785	16803	17	23°063	23°903	16877	20	13°117	25°182	16940	10	7°450	2°456	17014	9	22°604	5°974
16730	20	2°488	22°228	16804	12	23°187	23°847	16878	9	13°847	25°702	16941	15	8°178	2°848	17015	17	22°705	5°698
16731	19	3°088	22°288	16805	18	23°638	23°314	16879	11	14°529	25°993	16942	9	8°999	2°319	17016	13	23°113	5°055
16732	12	4°344	22°004	16806	18	24°395	23°583	16880	9	15°409	25°302	16943	11	9°170	2°305	17017*	29	23°635	5°076
16733	10	5°322	22°600	16807*	19	24°820	23°338	16881	10	17°675	25°582	16944	11	9°653	2°543	17018	10	25°711	5°344
16734	22	5°486	22°038	16808	22	25°127	23°011	16882	20	18°971	25°050	16945	10	9°953	2°655	17019	25	1°259	6°724
16735	13	6°374	22°260	16809	11	25°590	23°878	16883	10	19°658	25°565	16946	9	9°964	2°667	17020	13	1°718	6°580
16736	20	6°780	22°000	16810	12	25°896	23°775	16884	22	20°138	25°924	16947	9	10°715	2°253	17021	10	3°735	6°206
16737	15	7°035	22°863	16811	10	3°855	24°525	16885	10	20°153	25°380	16948	10	12°337	2°277	17022	10	4°165	6°245
16738	11	7°378	22°468	16812	10	4°189	24°375	16886*	15	20°863	25°243	16949	11	13°558	2°191	17023*	34	5°188	6°733
16739	10	8°116	22°085	16813	11	4°706	24°269	16887	10	21°294	25°542	16950*	30	14°694	2°149	17024	13	5°698	6°884
16740	11	8°407	22°582	16814	14	4°935	24°992	16888	11	22°264	25°676	16951	11	15°651	2°208	17025*	15	6°667	6°994
16741	9	8°779	22°202	16815	20	5°775	24°742					16952*	31	16°841	2°189	17026*	21	7°284	6°881
16742	10	9°705	22°087	16816	10	7°025	24°423					16953	13	17°815	2°375	17027	19	7°289	6°056
16743	10	9°844	22°765	16817	10	7°699	24°044					16954	9	18°394	2°914	17028	10	9°863	6°352
16744*	41	10°451	22°565	16818	24	7°904	24°962					16955	10	19°206	2°537	17029	9	13°194	6°044
16745	10	10°612	22°964	16819	10	7°925	24°500					16956	10	19°548	2°955	17030*	12	14°506	6°490
16746	10	10°631	22°725	16820*	38	8°035	24°426					16957	10	19°837	2°786	17031	9	15°220	6°740
16747	22	10°712	22°690	16821	10	8°572	24°841					16958	12	21°275	2°955	17032	13	15°368	6°413
16748	9	11°080	22°831	16822	11	10°485	24°964					16959	11	22°470	2°896	17033	22	16°970	6°336
16749	10	11°328	22°483	16823	21	10°540	24°881					16960	22	23°315	2°180	17034	11	18°383	6°086
16750	19	12°049	22°580	16824	9	10°823	24°786					16961	45	0°735	3°689	17035	11	19°444	6°036
16751	10	12°406	22°934	16825	9	11°599	24°732					16962	11	0°832	3°173	17036	12	19°951	6°263
16752	10	13°138	22°770	16826	12	11°646	24°941					16963	10	0°923	3°024	17037	11	19°985	6°508
16753	20	13°412	22°906	16827	11	11°901	24°111					16964	10	2°196	3°296	17038	16	20°234	6°153
16754	10	14°002	22°745	16828	10	12°199	24°378					16965	9	3°067	3°369	17039	10	21°815	6°564
16755	10	14°770	22°173	16829	9	13°790	24°765					16966	10	5°482	3°041	17040	10	22°158	6°424
16756	10	14°993	22°524	16830	12	14°822	24°053					16967	10	5°720	3°052	17041	9	22°694	6°841
16757	13	16°608	22°761	16831	10	15°187	24°258												

17052	9	15°948	7°928	17126	10	15°717	10°192	17200	8	9°771	14°304	17274	12	9°905	17°058	17348	11	12°480	20°566
17053	12	17°954	7°167	17127	28	17°481	10°471	17201	18	10°065	14°660	17275	21	9°985	17°447	17349	25	12°922	20°635
17054	12	18°228	7°992	17128	12	18°777	10°576	17202	12	10°116	14°129	17276	11	10°816	17°315	17350	9	13°156	20°498
17055	10	18°547	7°074	17129	20	20°273	10°948	17203	9	10°500	14°761	17277	12	11°717	17°865	17351	10	14°597	20°719
17056	9	19°746	7°604	17130*	35	22°718	10°551	17204*	15	10°908	14°817	17278	26	11°734	17°696	17352	9	17°968	20°305
17057	14	20°140	7°996	17131	9	22°809	10°496	17205	10	11°197	14°243	17279	12	12°155	17°663	17353	15	18°307	20°347
17058	13	21°247	7°505	17132	12	24°824	10°406	17206	13	11°665	14°149	17280	10	13°402	17°844	17354	11	18°326	20°052
17059	12	21°442	7°005	17133	9	24°846	10°611	17207	9	12°139	14°110	17281	12	13°454	17°042	17355	11	18°572	20°707
17060	11	22°020	7°478	17134	10	1°784	11°944	17208	11	12°172	14°269	17282	11	13°700	17°167	17356	12	19°032	20°422
17061	12	22°336	7°659	17135	21	5°863	11°897	17209*	42	12°188	14°681	17283	12	13°957	17°713	17357	10	19°674	20°530
17062	10	22°959	7°238	17136	11	6°821	11°101	17210	14	12°598	14°072	17284	10	13°981	17°210	17358	12	23°368	20°132
17063*	37	3°273	8°090	17137	20	7°772	11°501	17211*	35	12°825	14°710	17285	14	14°265	17°196	17359	12	0°040	21°774
17064	10	6°535	8°634	17138	11	9°403	11°179	17212	9	14°259	14°899	17286	10	14°745	17°829	17360	15	3°028	21°235
17065	9	8°644	8°820	17139	12	9°707	11°759	17213	11	16°596	14°217	17287	12	16°737	17°020	17361	11	3°095	21°568
17066	10	9°410	8°459	17140	9	10°293	11°818	17214*	66	17°842	14°017	17288	9	16°845	17°409	17362	10	5°106	21°229
17067	10	10°954	8°033	17141*	29	12°088	11°557	17215*	20	19°282	14°229	17289	11	17°908	17°384	17363	11	7°685	21°514
17068	12	11°658	8°185	17142	10	13°010	11°667	17216	9	19°687	14°129	17290	12	18°239	17°600	17364	13	8°188	21°424
17069	10	12°149	8°525	17143	11	13°394	11°983	17217	9	20°353	14°485	17291	12	19°094	17°697	17365	10	8°425	21°751
17070	11	12°228	8°107	17144	11	13°705	11°969	17218	9	21°052	14°476	17292	11	19°377	17°443	17366	10	8°590	21°300
17071	10	12°469	8°470	17145	11	16°469	11°493	17219	14	21°525	14°693	17293	10	21°513	17°222	17367	11	9°779	21°143
17072	9	12°498	8°375	17146	13	18°835	11°009	17220	18	21°570	14°930	17294	9	22°473	17°335	17368	9	10°090	21°433
17073	12	13°230	8°580	17147	9	20°146	11°260	17221	10	22°463	14°875	17295	9	22°556	17°295	17369	6	10°485	21°485
17074*	23	14°932	8°314	17148	10	20°845	11°038	17222	24	23°122	14°778	17296	10	0°509	18°614	17370*	13	12°278	21°683
17075	10	15°477	8°429	17149	8	21°916	11°145	17223	13	24°016	14°277	17297	13	2°252	18°755	17371	11	13°029	21°462
17076	11	16°761	8°271	17150	13	22°133	11°277	17224	12	4°189	15°705	17298	12	2°908	18°133	17372	27	13°272	21°642
17077	10	17°150	8°971	17151	10	22°417	11°285	17225	12	5°855	15°455	17299	13	7°133	18°039	17373	9	13°766	21°074
17078*	24	18°382	8°320	17152	10	22°703	11°681	17226	11	7°477	15°264	17300*	39	8°499	18°258	17374	12	14°018	21°405
17079	20	19°475	8°107	17153	12	25°248	11°021	17227	9	7°519	15°158	17301	10	8°625	18°912	17375	9	18°045	21°720
17080	9	21°144	8°601	17154	10	25°385	11°045	17228	10	11°300	15°456	17302	17	10°204	18°808	17376	14	25°918	21°842
17081	22	21°760	8°891	17155	13	1°009	12°811	17229	10	12°832	15°409	17303	10	13°608	18°309	17377	17	1°187	22°994
17082	18	22°749	8°296	17156*	26	1°356	12°752	17230	11	16°300	15°097	17304*	19	14°108	18°136	17378	13	2°937	22°590
17083	9	23°519	8°877	17157	14	2°537	12°247	17231	10	16°305	15°039	17305	19	17°192	18°683	17379	11	6°365	22°221
17084	12	23°805	8°024	17158	10	3°068	12°314	17232	13	19°419	15°150	17306	11	17°210	18°295	17380	12	7°969	22°613
17085	13	24°707	8°734	17159	10	8°061	12°783	17233	10	19°611	15°479	17307	9	18°941	18°842	17381	19	8°751	22°417
17086	18	25°610	8°562	17160	10	8°383	12°596	17234	10	19°789	15°907	17308	8	18°947	18°137	17382	10	8°914	22°553
17087*	48	0°054	9°187	17161	9	9°247	12°184	17235	10	20°504	15°656	17309	9	19°128	18°620	17383	13	11°701	22°277
17088*	33	1°854	9°576	17162	11	9°444	12°255	17236	10	22°132	15°164	17310	11	19°281	18°125	17384	11	13°113	22°817
17089	20	2°744	9°416	17163	16	12°934	12°890	17237	25	22°323	15°425	17311	10	20°760	18°325	17385	30	19°950	22°628
17090*	23	3°282	9°075	17164*	19	15°042	12°296	17238	11	23°064	15°343	17312	12	21°693	18°519	17386*	18	20°115	22°891
17091	11	4°934	9°425	17165	8	15°202	12°958	17239	13	23°941	15°582	17313	27	24°493	18°066	17387	10	21°618	22°068
17092	9	5°052	9°042	17166	14	16°895	12°387	17240	9	24°506	15°070	17314	13	0°149	19°790	17388	11	0°459	23°580
17093	12	5°440	9°459	17167	10	19°630	12°782	17241	10	1°427	16°869	17315	13	1°780	19°735	17389*	16	0°882	23°326
17094	12	6°741	9°850	17168	11	20°523	12°186	17242	13	1°708	16°429	17316	21	4°433	19°090	17390	10	2°879	23°133
17095	10	9°854	9°091	17169	12	20°854	12°928	17243	10	2°044	16°609	17317	13	4°883	19°460	17391*	66	3°017	23°044
17096	12	10°755	9°351	17170	21	21°444	12°484	17244*	58	4°932	16°176	17318	10	6°964	19°360	17392	12	3°561	23°714
17097*	28	12°738	9°928	17171	17	22°552	12°465	17245	23	5°212	16°126	17319	9	7°026	19°133	17393	19	5°986	23°878
17098	11	12°971	9°072	17172	15	22°587	12°011	17246	9	6°107	16°814	17320	12	7°742	19°887	17394	13	7°268	23°288
17099	18	13°779	9°236	17173	18	24°769	12°643	17247	9	8°632	16°447	17321	10	10°035	19°787	17395	10	9°742	23°945
17100*	17	15°480	9°027	17174	9	1°230	13°413	17248	9	9°855	16°470	17322	9	10°132	19°299	17396*	28	10°240	23°175
17101	8	15°492	9°051	17175	13	4°137	13°154	17249	12	10°693	16°010	17323	11	10°149	19°870	17397	10	15°082	23°102
17102*	13	15°852	9°138	17176	10	5°638	13°824	17250	15	11°167	16°790	17324	12	10°172	19°464	17398	15	15°837	23°352
17103	17	16°695	9°816	17177	9	7°631	13°007	17251	11	12°760	16°004	17325	11	12°541	19°247	17399*	22	16°112	23°799
17104	12	18°376	9°346	17178	11	9°647	13°847	17252	9	14°275	16°454	17326	13	13°057	19°501	17400	20	16°989	23°939
17105	10	19°060	9°005	17179	11	9°802	13°133	17253	9	16°429	16°982	17327	14	14°035	19°764	17401*	36	3°065	24°411
17106*	25	19°257	9°929	17180	9	11°145	13°478	17254	9	16°886	16°622	17328	9	14°687	19°767	17402*	20	3°963	24°244
17107*	23	19°768	9°882	17181	10	12°666	13°410	17255	13	18°020	16°359	17329*	35	17°921	19°096	17403	13	4°171	24°480
17108	12	20°097	9°997	17182*	34	13°820	13°448	17256*	45	19°055	16°956	17330	11	19°477	19°107	17404	10	4°252	24°831
17109	10	21°672	9°819	17183	20	14°426	13°522	17257*	27	19°186	16°628	17331	9	19°636	19°141	17405	13	7°125	24°047
17110	9	22°295	9°953	17184	10	16°409	13°132	17258	12	21°058	16°846	17332	17	19°776	19°473	17406	10	8°129	24°463
17111	10	22°943	9°722	17185	10	18°064	13°763	17259	10	21°928	16°230	17333	10	21°202	19°063	17407	10	8°340	24°887
17112	11	24°545	9°102	17186	10	20°876	13°884	17260	10	22°557	16°456	17334	12	23°371	19°624	17408	10	10°746	24°995
17113	10	2°045	10°993	17187	10	21°330	13°783	17261	12	22°840	16°896	17335	9	24°302	19°264	17409	9	12°230	24°419
17114	21	2°759	10°069																

17422	9	6.121	25.817	17542	16	11.636	1.746	17616*	27	12.039	3.435	17690	8	12.815	5.034	17764	5	9.755	7.215																
17423	11	8.209	25.767	17543	5	11.867	1.063	17617	11	12.317	3.915	17691	8	13.046	5.236	17765	6	11.597	7.106																
17424	27	8.573	25.574	17544	8	12.001	1.677	17618	10	12.633	3.283	17692	6	13.292	5.672	17766	5	12.171	7.338																
17425	13	8.684	25.927	17545	20	14.785	1.669	17619	9	12.925	3.425	17693	12	13.832	5.776	17767	8	12.185	7.426																
17426	13	18.913	25.475	17546	6	15.400	1.614	17620	27	13.077	3.105	17694	5	15.067	5.745	17768	10	12.959	7.387																
17427	9	20.905	25.927	17547	12	15.516	1.073	17621	9	13.905	3.986	17695	13	15.575	5.134	17769	5	13.046	7.466																
17428	9	21.388	25.123	17548	6	15.566	1.255	17622	9	14.955	3.050	17696	16	15.895	5.616	17770	12	13.424	7.644																
17429	11	22.694	25.379	17549	8	15.866	1.424	17623	6	15.431	3.554	17697	20	16.775	5.862	17771	6	14.018	7.213																
17430*	38	23.525	25.104	17550	6	15.949	1.215	17624	8	15.774	3.276	17698	7	17.290	5.035	17772	21	14.343	7.813																
17431	11	23.930	25.595	17551	6	15.963	1.895	17625*	22	16.724	3.106	17699	6	17.596	5.310	17773	6	14.598	7.446																
R. A. 6^h 36^m Plate 1496; 1900 Jan. 17. Provisional Constants. A B C -00022 +01069 -4295 D E F -01083 -00032 -4348 Mag. = 14.4 - 1.02√d																				17552	5	16.045	1.854	17626	5	16.730	3.994	17700	8	17.665	5.304	17774	8	14.627	7.373
																				17553*	26	16.819	1.341	17627	7	17.255	3.723	17701	28	17.866	5.489	17775	12	15.568	7.719
																				17554	7	17.366	1.976	17628	6	19.895	3.523	17702	7	18.529	5.035	17776	5	16.226	7.027
																				17555	10	17.430	1.419	17629	7	20.365	3.894	17703	5	18.845	5.637	17777	13	16.625	7.517
																				17556	12	17.631	1.681	17630	6	20.628	3.499	17704	7	21.018	5.325	17778	13	16.967	7.876
																				17557	8	19.130	1.955	17631	7	21.125	3.485	17705	5	21.147	5.459	17779	6	17.749	7.713
																				17558	12	19.134	1.604	17632	9	21.969	3.229	17706	6	21.205	5.903	17780*	47	17.801	7.328
																				17559	8	20.130	1.267	17633	9	22.265	3.338	17707	14	22.216	5.705	17781	12	18.786	7.134
																				17560	8	20.140	1.852	17634	6	23.636	3.314	17708	5	23.035	5.555	17782	11	19.314	7.183
																				17561	10	20.225	1.405	17635	10	25.743	3.094	17709	8	23.479	5.064	17783	8	19.734	7.304
																				17562	6	20.705	1.836	17636	21	1.725	4.197	17710	6	23.528	5.240	17784	5	20.316	7.758
																				17563	21	21.384	1.545	17637	5	2.047	4.117	17711	11	24.081	5.076	17785	6	20.834	7.480
																				17564	11	22.297	1.476	17638	12	2.681	4.265	17712	8	24.636	5.635	17786	5	20.906	7.177
																				17565	22	24.066	1.787	17639	8	2.999	4.404	17713	6	25.517	5.846	17787	5	21.193	7.535
																				17566	18	25.564	1.055	17640	5	8.274	4.524	17714	6	25.555	5.276	17788*	26	24.136	7.668
17567	8	25.955	1.430	17641	6	8.564	4.316	17715	5	3.338	6.615	17789	7	25.490	7.732																				
17568	6	1.170	2.287	17642	6	9.696	4.744	17716	5	3.916	6.914	17790	6	0.453	8.895																				
17569	7	2.072	2.725	17643	5	10.301	4.291	17717	6	5.026	6.813	17791	6	0.585	8.965																				
17570	8	2.311	2.484	17644	23	10.325	4.025	17718	10	5.795	6.875	17792	16	0.600	8.526																				
17571	6	3.677	2.908	17645	22	10.615	4.705	17719	6	7.893	6.857	17793	8	1.297	8.295																				
17572	13	3.681	2.414	17646	10	11.494	4.271	17720	7	8.365	6.201	17794	18	1.491	8.330																				
17573	6	3.794	2.342	17647	8	12.858	4.085	17721	15	8.739	6.776	17795	6	2.566	8.281																				
17574	5	5.400	2.696	17648	5	12.892	4.685	17722	16	8.886	6.436	17796	8	2.809	8.640																				
17575	6	6.616	2.994	17649	8	12.980	4.324	17723	8	9.906	6.515	17797	10	3.304	8.854																				
17576	7	6.934	2.492	17650	6	13.414	4.439	17724	5	10.560	6.128	17798	12	3.336	8.605																				
17577	6	6.967	2.171	17651	23	13.737	4.310	17725*	29	11.017	6.306	17799	9	6.534	8.755																				
17578	6	6.970	2.215	17652	5	13.985	4.089	17726*	38	11.305	6.812	17800	10	6.967	8.164																				
17579	6	7.915	2.537	17653	8	14.047	4.758	17727	6	11.983	6.835	17801	7	7.433	8.548																				
17580	5	8.696	2.218	17654	14	15.582	4.875	17728	8	12.670	6.246	17802	14	8.678	8.301																				
17581	14	9.444	2.602	17655*	12	15.655	4.426	17729	7	13.444	6.126	17803	8	8.726	8.564																				
17582	12	9.532	2.482	17656	17	15.656	4.600	17730*	24	13.464	6.784	17804	6	8.884	8.786																				
17583	12	10.855	2.286	17657	7	17.834	4.575	17731	7	15.238	6.167	17805	16	9.333	8.646																				
17584*	39	11.179	2.542	17658	14	17.942	4.826	17732	8	15.972	6.345	17806	12	10.075	8.316																				
17585	13	11.547	2.728	17659	6	18.654	4.345	17733	7	16.357	6.244	17807	14	10.117	8.460																				
17586	8	11.758	2.575	17660	8	20.594	4.616	17734	16	16.717	6.483	17808	12	10.394	8.125																				
17587	31	14.576	2.795	17661	12	20.773	4.345	17735*	26	16.875	6.776	17809	14	11.325	8.282																				
17588	6	15.702	2.286	17662	12	20.791	4.561	17736	7	17.165	6.855	17810	6	12.111	8.686																				
17589	24	15.767	2.376	17663	16	21.569	4.188	17737	6	18.219	6.161	17811	6	12.550	8.224																				
17590	9	15.770	2.679	17664	10	21.856	4.655	17738	10	19.659	6.900	17812	12	12.655	8.826																				
17591	20	16.635	2.057	17665	8	22.062	4.424	17739	8	20.115	6.075	17813	16	13.223	8.766																				
17592	8	17.426	2.115	17666	8	22.508	4.924	17740	8	20.395	6.435	17814	5	13.547	8.545																				
17593	8	17.587	2.075	17667	8	22.587	4.195	17741	6	20.611	6.338	17815	26	14.055	8.675																				
17594	16	18.203	2.035	17668	6	23.034	4.697	17742	5	20.977	6.846	17816	10	14.163	8.115																				
17595	22	19.626	2.417	17669	8	24.626	4.738	17743	7	21.555	6.585	17817	6	14.317	8.787																				
17596	10	21.045	2.165	17670	5	25.015	4.464	17744	6	21.586	6.407	17818	6	16.086	8.275																				
17597	20	21.115	2.938	17671	7	25.675	4.996	17745	20	22.225	6.824	17819	6	16.426	8.527																				
17598	6	21.269	2.101	17672	8	0.855	5.216	17746	6	22.777	6.768	17820	14	17.376	8.354																				
17599	6	24.272	2.714	17673	9	1.501	5.134	17747	6	23.075	6.626	17821	16	17.388	8.353																				
17600	5	2.381	3.755	17674	6	2.266	5.265	17748	8	23.138	6.554	17822	12	17.629	8.415																				
17601	19	2.634	3.955	17675	5	2.587	5.161	17749	13	25.314	6.505	17823	10	17.831	8.966																				
17602	12	3.575	3.212	17676	5	2.885	5.491	17750	15	25.372	6.705	17824	15	18.445	8.965																				
17603	5	4.535	3.705	17677	7	3.174	5.056	17751	6	0.715	7.838	17825	7	18.932	8.874																				
17604	10	4.566	3.625	17678	5	3.683	5.366	17752	8	2.611	7.708	17826	6	20.373	8.737																				
17605	8	5.096	3.006	17679	13	4.697	5.285	17753	9	3.198	7.186	17827	23	20.557	8.399																				
17606	8	5.946	3.199	17680	14	7.205	5.034	17754	5	3.839	7.644	17828	8	20.685	8.795																				
17607	14	7.104	3.163	17681	10	7.643	5.160	17755	8	5.150	7.075	17829	14	20.734	8.470																				
17608	12	7.720	3.451	17682	6	7.856	5.218	17756	6	5.337	7.515	17830	5	20.769	8.311																				
17609	5	8.773	3.450	17683	6	8.855	5.895																												

17838	6	25°771	8°158	17912	8	24°495	10°527	17986	8	23°870	12°813	18060	14	8°731	14°531	18134	14	16°567	16°889
17839	6	0°586	9°929	17913	7	25°415	10°635	17987	14	24°125	12°024	18061	6	9°321	14°914	18135	8	18°311	16°857
17840	8	1°965	9°609	17914	8	25°834	10°464	17988	7	25°087	12°616	18062	6	9°482	14°276	18136	10	18°436	16°408
17841	6	2°390	9°458	17915	6	2°011	11°071	17989	6	25°614	12°075	18063	11	10°918	14°565	18137	6	18°544	16°597
17842	6	4°053	9°115	17916	16	2°235	11°766	17990	8	0°633	13°155	18064	6	11°067	14°886	18138	5	18°655	16°849
17843	6	4°390	9°097	17917	6	2°311	11°687	17991	5	0°751	13°145	18065	7	11°367	14°675	18139	7	18°926	16°109
17844	8	4°826	9°964	17918	10	2°592	11°220	17992	8	1°817	13°437	18066	10	12°956	14°456	18140	5	19°472	16°796
17845	8	5°450	9°322	17919	12	2°623	11°704	17993	12	3°264	13°607	18067	12	13°076	14°425	18141	6	21°278	16°451
17846	8	5°526	9°106	17920*	51	3°713	11°249	17994	14	3°625	13°143	18068	8	16°605	14°867	18142	24	21°455	16°205
17847	10	5°782	9°557	17921	20	3°776	11°177	17995	6	3°903	13°869	18069	8	16°950	14°205	18143	7	22°025	16°072
17848	10	5°836	9°555	17922	5	4°091	11°296	17996	13	5°834	13°123	18070	6	17°076	14°500	18144	6	22°174	16°022
17849	6	7°133	9°645	17923	14	5°180	11°096	17997	6	6°302	13°985	18071	10	17°711	14°076	18145	7	23°293	16°567
17850	8	8°636	9°583	17924	14	6°005	11°955	17998	5	6°574	13°984	18072	12	18°075	14°935	18146	6	23°646	16°256
17851	10	8°955	9°766	17925	6	6°771	11°126	17999	5	7°606	13°834	18073	9	18°305	14°514	18147	10	23°916	16°415
17852	16	9°475	9°364	17926	6	7°265	11°641	18000	9	8°748	13°400	18074	10	18°696	14°989	18148	6	24°578	16°156
17853	10	9°552	9°366	17927	5	7°959	11°545	18001	6	9°414	13°795	18075	20	19°205	14°415	18149	28	0°655	17°785
17854	6	11°750	9°787	17928	14	8°594	11°840	18002	6	10°225	13°907	18076	6	19°783	14°707	18150	5	1°215	17°622
17855	6	12°125	9°802	17929	8	9°020	11°495	18003	6	11°025	13°029	18077	8	21°454	14°098	18151	6	3°405	17°540
17856	6	13°122	9°826	17930	8	9°424	11°768	18004	10	11°365	13°573	18078	8	22°304	14°285	18152	6	3°631	17°474
17857	5	13°606	9°156	17931	8	10°162	11°293	18005	12	11°776	13°717	18079	6	24°245	14°886	18153	10	3°858	17°175
17858	8	14°784	9°225	17932	6	10°175	11°309	18006	6	12°662	13°387	18080	14	0°043	15°340	18154	5	4°535	17°825
17859	11	15°234	9°063	17933	14	10°209	11°920	18007	8	12°724	13°795	18081	6	0°361	15°904	18155	5	4°814	17°646
17860	7	18°600	9°276	17934	5	10°485	11°855	18008	18	12°765	13°135	18082	6	1°186	15°282	18156	5	4°842	17°641
17861	6	18°763	9°042	17935	8	11°165	11°034	18009	6	12°885	13°418	18083	8	2°400	15°073	18157	10	5°414	17°516
17862	6	19°544	9°886	17936	27	12°155	11°023	18010	6	12°907	13°238	18084	6	2°935	15°825	18158	10	5°527	17°242
17863	8	20°012	9°082	17937	7	12°798	11°284	18011	6	13°134	13°033	18085	12	3°834	15°996	18159	20	5°588	17°071
17864	6	20°106	9°995	17938	12	13°133	11°963	18012	8	13°255	13°794	18086	8	4°279	15°464	18160	8	5°591	17°371
17865*	46	21°467	9°666	17939	5	14°222	11°146	18013	10	13°761	13°687	18087	6	5°265	15°425	18161	5	5°934	17°471
17866	26	22°290	9°524	17940	5	14°517	11°735	18014	8	15°614	13°405	18088	8	5°454	15°465	18162	6	6°196	17°391
17867	5	23°384	9°646	17941	6	14°595	11°695	18015	11	15°687	13°585	18089	6	6°077	15°263	18163	6	7°429	17°746
17868	6	23°653	9°969	17942	7	15°236	11°035	18016	10	16°116	13°413	18090*	25	7°661	15°094	18164	7	8°317	17°066
17869	12	24°565	9°094	17943	14	16°185	11°525	18017	12	16°571	13°994	18091	6	7°961	15°352	18165	5	8°411	17°687
17870	14	25°316	9°996	17944	12	17°065	11°541	18018	5	17°355	13°075	18092*	56	10°226	15°917	18166	7	8°546	17°025
17871	8	25°910	9°360	17945	8	18°048	11°644	18019	7	18°254	13°601	18093	6	12°452	15°628	18167	6	9°216	17°175
17872	11	0°766	10°183	17946	6	18°554	11°791	18020	26	19°510	13°473	18094	9	13°195	15°535	18168	5	9°229	17°420
17873	6	0°795	10°384	17947	5	19°235	11°064	18021	8	19°590	13°761	18095	5	14°184	15°095	18169	6	9°492	17°165
17874	6	0°905	10°094	17948	11	20°688	11°423	18022	8	19°927	13°825	18096	8	15°031	15°970	18170	6	9°875	17°995
17875	13	1°206	10°781	17949	6	21°726	11°447	18023	5	20°258	13°856	18097	5	16°597	15°613	18171	10	10°407	17°983
17876	9	1°339	10°797	17950	5	21°777	11°273	18024	10	20°362	13°148	18098	11	17°867	15°525	18172	7	10°585	17°646
17877	6	1°505	10°973	17951	12	21°856	11°647	18025	6	20°534	13°465	18099*	28	20°845	15°133	18173	8	11°045	17°120
17878	8	1°694	10°875	17952	9	22°128	11°842	18026	5	20°837	13°279	18100	5	21°156	15°838	18174*	34	11°119	17°205
17879	10	2°424	10°601	17953*	38	23°465	11°398	18027	6	20°896	13°174	18101	7	21°226	15°124	18175	9	11°409	17°848
17880	11	3°664	10°823	17954	5	24°740	11°065	18028	6	20°952	13°495	18102	7	21°770	15°387	18176	7	11°855	17°873
17881	6	3°694	10°088	17955	5	25°925	11°104	18029	12	20°976	13°406	18103	11	22°488	15°326	18177	7	11°875	17°216
17882	7	3°968	10°686	17956	8	0°774	12°400	18030*	16	21°066	13°237	18104	12	22°636	15°164	18178	6	12°170	17°246
17883	6	4°286	10°414	17957	10	1°229	12°952	18031	12	21°670	13°442	18105	9	22°731	15°493	18179	10	13°648	17°351
17884	5	4°526	10°815	17958	5	3°625	12°519	18032	6	23°864	13°095	18106	13	23°932	15°805	18180	9	14°028	17°416
17885	6	4°695	10°513	17959	7	6°474	12°934	18033	6	23°905	13°463	18107	23	24°396	15°360	18181	7	14°076	17°926
17886	6	5°712	10°571	17960	5	6°654	12°746	18034	7	24°186	13°368	18108	5	25°235	15°948	18182	6	14°619	17°419
17887	11	6°076	10°457	17961	14	7°527	12°679	18035	10	24°546	13°817	18109	6	25°817	15°249	18183	5	14°757	17°537
17888	7	7°051	10°686	17962	6	7°649	12°876	18036	7	24°893	13°590	18110	7	0°391	16°792	18184	8	14°866	17°095
17889	6	7°415	10°736	17963	11	7°975	12°786	18037	6	25°348	13°825	18111	14	1°376	16°435	18185	6	14°985	17°556
17890	10	7°795	10°892	17964	9	8°760	12°885	18038	13	0°077	14°045	18112	8	1°598	16°168	18186	12	16°117	17°898
17891	8	8°036	10°295	17965	12	9°720	12°837	18039	8	0°585	14°816	18113	8	2°252	16°634	18187	5	16°146	17°329
17892	10	8°472	10°695	17966	7	9°742	12°656	18040	5	1°546	14°138	18114	5	3°113	16°828	18188	6	16°542	17°935
17893	8	8°835	10°614	17967	6	10°096	12°508	18041	6	1°895	14°879	18115	6	3°135	16°583	18189	6	17°965	17°308
17894	8	9°032	10°155	17968	28	11°355	12°723	18042	8	2°246	14°936	18116	13	3°698	16°251	18190	6	20°278	17°271
17895	6	9°456	10°505	17969	7	11°794	12°304	18043	6	2°385	14°209	18117	19	3°785	16°945	18191	5	22°041	17°987
17896	6	13°885	10°323	17970	12	12°157	12°598	18044	10	2°821	14°195	18118	6	5°043	16°904	18192	6	22°413	17°886
17897	5	14°414	10°255	17971	7	13°426	12°056	18045	14	3°035	14°888	18119*	68	5°485	16°737	18193	8	23°626	17°844
17898	7	14°736	10°501	17972	6	14°069	12°956	18046	8	3°565	14°025	18120	8	5°668	16°305	18194	6	24°693	17°925
17899	18	15°440	10°644	17973	24	15°675	12°095	18047	5	3°576	14°584	18121	10	8°671	16°795	18195	8	0°508	18°984
17900	5	15°710	10°586	17974	5	15°705	12°807	18048	6	3°619	14°782	18122	5	9°045	16°328	18196	8	0°525	18°734
17901	5	16°181																	

18208*	31	7.794	18.399	18282	5	7.856	20.532	18356	22	15.144	22.235	18430	16	13.255	25.591	18534	17	18.060	1.303
18209	9	7.830	18.651	18283	7	9.355	20.620	18357	6	15.200	22.178	18431	10	13.683	25.629	18535	9	18.265	1.971
18210	8	8.312	18.067	18284	20	10.309	20.405	18358	6	15.603	22.492	18432*	22	13.864	25.271	18536	4	22.561	1.333
18211	5	9.668	18.875	18285	6	10.532	20.084	18359	5	16.127	22.926	18433	19	15.835	25.023	18537	5	23.180	1.543
18212	10	10.642	18.946	18286	7	12.010	20.951	18360	12	16.597	22.906	18434	10	15.846	25.772	18538	8	23.975	1.647
18213	18	12.159	18.875	18287	12	13.777	20.774	18361	7	17.154	22.595	18435	6	16.094	25.165	18539	8	24.700	1.599
18214	14	12.195	18.720	18288	8	14.728	20.477	18362	5	17.475	22.592	18436	11	18.085	25.286	18540*	11	25.004	1.188
18215	6	13.996	18.045	18289	9	14.826	20.616	18363	7	17.933	22.792	18437	6	18.435	25.513	18541	13	0.394	2.427
18216	16	14.090	18.088	18290	11	15.439	20.305	18364	6	18.503	22.006	18438	11	18.679	25.726	18542	5	2.281	2.020
18217	5	14.308	18.746	18291	5	15.476	20.754	18365	6	25.085	22.042	18439*	60	19.192	25.232	18543	7	5.591	2.721
18218	5	14.605	18.395	18292	11	15.653	20.173	18366	18	1.977	23.895	18440	12	19.272	25.407	18544	5	6.563	2.384
18219	7	14.845	18.373	18293	12	16.331	20.322	18367	6	2.135	23.284	18441	8	20.488	25.768	18545	8	8.771	2.304
18220	6	14.995	18.283	18294	7	17.436	20.839	18368	18	4.105	23.105	18442	12	20.885	25.307	18546*	35	9.760	2.217
18221	6	15.844	18.236	18295	15	17.640	20.926	18369	22	5.222	23.316	18443	24	22.747	25.464	18547	8	10.413	2.118
18222*	36	16.262	18.394	18296	7	17.665	20.707	18370	8	5.346	23.292	18444	5	23.078	25.346	18548	9	10.535	2.933
18223	5	16.595	18.771	18297	6	18.515	20.985	18371	6	6.552	23.807	18445	5	24.210	25.431	18549	6	11.995	2.477
18224	5	16.772	18.787	18298	26	19.180	20.236	18372	6	8.983	23.645	18446	5	24.396	25.437	18550	6	12.456	2.059
18225	7	17.406	18.372	18299	9	19.667	20.124	18373	15	10.500	23.070	18447	6	24.543	25.158	18551	7	13.105	2.537
18226*	32	18.126	18.005	18300	6	21.002	20.722	18374	10	11.376	23.617					18552	9	14.030	2.042
18227	11	19.133	18.985	18301	6	21.646	20.075	18375	8	12.126	23.515					18553	7	14.324	2.620
18228	6	19.755	18.085	18302	6	21.706	20.318	18376	10	13.005	23.702					18554	14	18.001	2.661
18229	8	20.805	18.436	18303	19	22.159	20.559	18377	5	13.105	23.330					18555	7	19.020	2.515
18230	10	21.524	18.665	18304*	22	23.378	20.153	18378	7	13.144	23.625					18556	9	19.468	2.397
18231	11	21.750	18.439	18305	14	23.775	20.828	18379	5	14.234	23.472					18557	6	19.841	2.261
18232	12	22.288	18.534	18306*	29	24.129	20.308	18380	18	14.310	23.319					18558	5	20.886	2.226
18233	10	22.968	18.065	18307	12	24.233	20.604	18381	15	14.663	23.816					18559	6	21.347	2.972
18234	7	25.995	18.863	18308	7	25.140	20.640	18382	6	15.060	23.865					18560	8	21.361	2.875
18235	8	0.385	19.354	18309	10	25.386	20.677	18383	6	15.660	23.725					18561	10	21.869	2.709
18236	5	0.546	19.297	18310	5	0.289	21.775	18384	5	15.986	23.636					18562	15	22.172	2.995
18237	6	1.259	19.055	18311	6	1.342	21.180	18385	5	17.090	23.079					18563	15	22.556	2.957
18238	6	2.086	19.506	18312	12	2.185	21.495	18386	5	18.799	23.485					18564	8	22.578	2.016
18239	10	4.543	19.263	18313	5	2.455	21.478	18387	6	18.806	23.764					18565	4	22.955	2.835
18240*	18	5.531	19.301	18314	13	2.510	21.438	18388	7	19.438	23.400					18566	4	24.356	2.235
18241	16	5.968	19.935	18315	8	2.699	21.113	18389	5	19.559	23.500					18567	9	25.544	2.579
18242	6	6.222	19.480	18316	5	3.029	21.682	18390	5	19.934	23.257					18568	8	2.099	3.699
18243	8	7.005	19.055	18317	7	3.104	21.904	18391	20	20.238	23.687					18569*	22	3.266	3.742
18244	6	7.340	19.573	18318*	28	3.114	21.660	18392	5	20.934	23.243					18570	12	5.601	3.826
18245	5	7.594	19.750	18319	8	3.277	21.986	18393	27	21.884	23.445					18571	9	6.688	3.190
18246	7	10.661	19.530	18320	6	4.398	21.664	18394	16	23.676	23.798					18572	5	8.346	3.379
18247	8	10.996	19.241	18321	6	6.815	21.997	18395	5	23.766	23.699					18573	9	8.896	3.623
18248	6	11.064	19.772	18322*	25	7.617	21.774	18396	6	24.065	23.595					18574	6	8.947	3.111
18249	18	11.869	19.523	18323*	34	7.885	21.689	18397	10	3.526	24.844					18575	10	9.223	3.139
18250	6	12.312	19.650	18324	25	9.929	21.860	18398	8	3.662	24.525					18576	12	10.140	3.817
18251	16	12.471	19.404	18325	5	11.846	21.365	18399	5	3.945	24.136					18577	8	10.449	3.599
18252	18	12.560	19.521	18326	6	14.397	21.384	18400	8	4.525	24.285					18578	10	11.712	3.289
18253	10	13.514	19.774	18327	12	16.155	21.358	18401*	26	7.115	24.315					18579	5	11.755	3.295
18254	13	13.606	19.105	18328	18	16.255	21.545	18402	9	7.181	24.091					18580	4	13.177	3.262
18255	5	15.205	19.255	18329	8	16.826	21.551	18403	8	8.284	24.921					18581	6	13.449	3.271
18256	16	15.858	19.216	18330	10	17.835	21.560	18404	20	11.167	24.592					18582	7	13.561	3.776
18257	6	16.272	19.236	18331	12	18.965	21.295	18405	18	11.940	24.018					18583	5	15.820	3.716
18258	5	16.576	19.668	18332	5	19.794	21.025	18406	10	13.555	24.389					18584	15	16.225	3.691
18259	6	17.165	19.650	18333	6	19.864	21.193	18407	7	16.495	24.100					18585	10	16.244	3.686
18260	7	17.365	19.962	18334	5	21.102	21.833	18408	5	17.868	24.836					18586	7	16.674	3.962
18261	15	18.056	19.304	18335	5	23.418	21.450	18409	8	17.944	24.210					18587	12	17.800	3.215
18262	16	19.476	19.614	18336	5	2.098	22.293	18410	6	20.072	24.701					18588	7	18.232	3.138
18263	6	22.813	19.435	18337	6	2.373	22.361	18411	6	20.930	24.026					18589	7	20.655	3.918
18264	8	23.448	19.774	18338	5	5.519	22.429	18412	10	23.065	24.350					18590	14	21.060	3.179
18265	14	23.648	19.705	18339	6	6.629	22.503	18413*	34	24.688	24.091					18591	7	21.665	3.112
18266	20	24.005	19.400	18340*	12	7.187	22.401	18414	5	25.446	24.117					18592	12	21.885	3.369
18267	14	24.547	19.265	18341	12	8.825	22.582	18415	6	0.324	25.278					18593	5	24.170	3.458
18268	8	24.916	19.011	18342	12	9.305	22.684	18416	6	1.144	25.996					18594	4	24.548	3.396
18269	6	0.982	20.387	18343	8	9.415	22.524	18417*	75	2.470	25.414					18595	5	25.295	3.687
18270	6	1.165	20.840	18344*	13	9.563	22.525	18418	5	2.762	25.194					18596	5	3.575	4.395
18271	9	2.116	20.216	18345	8	9.816	22.976	18419	13	4.452	25.672					18597	6	5.796	4.732
18272	6	2.460	20.524	18346	10	10.296	22.555	18420	6	4.678	25.514					18598	12	7.029	4.520
18273	16	2.505	20.219	18347	8	10.700	22.059	18421	5	4.760	25.136					18599	5	7.192	4.639
18274	18	2.745	20.355	18348	12	10.775	22.636	18422	6	5.419	25.874					18600*	50	7.446	4.482
18275	11	3.395	20.926	18349	8	11.753	22.844	18423	5	6.075	25.154					18601	9	7.835	4.185
18276	5	3.718	20.972	18350*	31	12.535	22.835	18424*	31	7.345	25.164								

18608	11	13°936	4°812	18682	4	8°922	6°392	18756	11	4°987	8°646	18830	5	4°956	10°590	18904	4	20°956	11°857
18609	4	14°147	4°445	18683	5	9°505	6°164	18757	4	5°636	8°370	18831	15	5°857	10°560	18905	5	22°758	11°656
18610	5	14°475	4°615	18684	9	9°768	6°640	18758	5	5°769	8°190	18832	13	5°950	10°920	18906	9	22°814	11°087
18611	11	15°903	4°962	18685	13	10°495	6°079	18759	13	7°023	8°350	18833	4	6°193	10°196	18907	8	22°818	11°040
18612	5	16°878	4°271	18686	11	11°860	6°426	18760	4	7°234	8°841	18834	6	7°487	10°939	18908	4	22°926	11°564
18613	8	17°843	4°185	18687	19	12°125	6°542	18761	11	8°671	8°378	18835	4	8°555	10°290	18909	6	22°935	11°698
18614	6	18°165	4°066	18688	7	12°266	6°012	18762	10	9°417	8°678	18836	9	9°068	10°481	18910	6	23°463	11°207
18615	5	18°390	4°435	18689	13	12°420	6°346	18763	4	9°667	8°734	18837	4	9°319	10°531	18911	6	23°915	11°060
18616	11	21°129	4°972	18690	4	12°761	6°643	18764	5	10°599	8°978	18838	7	10°646	10°351	18912	15	24°821	11°438
18617	5	21°438	4°740	18691	4	14°045	6°719	18765	5	12°996	8°657	18839	8	11°363	10°280	18913	12	0°666	12°660
18618	4	21°731	4°980	18692	12	14°064	6°975	18766	12	13°076	8°330	18840*	12	11°541	10°265	18914	4	3°068	12°172
18619	5	21°894	4°485	18693	5	14°936	6°325	18767*	16	13°271	8°106	18841	6	12°320	10°082	18915	15	4°719	12°865
18620	12	22°980	4°218	18694	6	15°172	6°477	18768	5	13°589	8°207	18842	5	12°618	10°407	18916	5	6°354	12°516
18621	5	25°257	4°530	18695	5	15°651	6°191	18769*	24	15°244	8°427	18843	11	13°148	10°342	18917	9	7°578	12°698
18622	9	0°475	5°713	18696	11	15°926	6°826	18770	14	17°529	8°850	18844	4	13°341	10°141	18918*	19	7°746	12°846
18623	6	1°025	5°369	18697	7	16°210	6°011	18771	22	17°618	8°037	18845	8	14°225	10°348	18919	7	8°203	12°104
18624	4	1°402	5°080	18698	6	16°700	6°218	18772*	15	22°452	8°700	18846	8	14°349	10°249	18920	6	8°302	12°776
18625	6	1°959	5°886	18699	4	17°957	6°996	18773	5	23°763	8°127	18847	9	14°946	10°443	18921	5	9°559	12°438
18626	6	2°071	5°606	18700	8	18°365	6°335	18774	10	23°985	8°685	18848	9	15°103	10°461	18922	8	12°506	12°531
18627	4	2°445	5°298	18701	12	19°805	6°920	18775	12	24°045	8°475	18849	12	15°310	10°401	18923	5	14°440	12°152
18628	9	3°859	5°922	18702	6	19°845	6°239	18776	18	24°769	8°518	18850	5	15°449	10°198	18924	4	15°005	12°398
18629	10	4°174	5°595	18703	7	20°589	6°861	18777	5	25°489	8°259	18851	6	16°021	10°240	18925	12	16°348	12°641
18630	4	4°416	5°881	18704	4	21°120	6°422	18778	6	0°145	9°336	18852	9	16°291	10°717	18926	11	16°935	12°712
18631	6	6°716	5°557	18705	6	21°832	6°267	18779	10	1°047	9°722	18853	11	17°681	10°905	18927	12	17°332	12°432
18632	7	7°350	5°460	18706	9	22°673	6°612	18780	7	1°287	9°409	18854	8	18°539	10°122	18928	5	18°247	12°224
18633	7	7°426	5°361	18707	7	22°861	6°619	18781	4	1°623	9°160	18855	9	18°841	10°027	18929	4	18°718	12°281
18634	7	7°513	5°534	18708	17	23°327	6°790	18782	8	2°397	9°961	18856	5	19°455	10°005	18930	13	21°498	12°875
18635	6	7°716	5°460	18709	4	23°523	6°327	18783	13	3°313	9°254	18857	6	19°557	10°826	18931	4	21°689	12°715
18636	4	9°735	5°477	18710*	30	23°597	6°410	18784	6	3°784	9°096	18858	5	20°175	10°509	18932	8	21°694	12°760
18637	6	9°758	5°255	18711	11	24°008	6°579	18785	11	4°342	9°612	18859	6	20°403	10°355	18933	4	22°046	12°677
18638	5	10°587	5°404	18712	11	24°782	6°995	18786	15	4°777	9°363	18860	5	21°518	10°788	18934	5	22°473	12°155
18639	12	10°684	5°360	18713	16	25°747	6°002	18787	4	5°159	9°261	18861	10	21°576	10°586	18935	5	23°384	12°541
18640	5	11°615	5°560	18714	11	1°737	7°118	18788	5	5°662	9°841	18862	7	21°579	10°092	18936	4	23°824	12°599
18641	4	12°296	5°830	18715	12	1°804	7°317	18789	13	7°695	9°925	18863	8	21°630	10°359	18937	10	25°352	12°952
18642	7	12°758	5°587	18716	4	3°311	7°010	18790	6	7°930	9°845	18864	11	21°669	10°172	18938	10	0°180	13°406
18643	12	13°353	5°462	18717	10	3°647	7°409	18791	4	8°102	9°111	18865	6	22°862	10°926	18939	6	0°426	13°456
18644	5	13°622	5°965	18718	6	5°096	7°142	18792	7	8°441	9°803	18866	6	24°096	10°236	18940	4	1°593	13°031
18645	5	14°696	5°053	18719	11	6°579	7°280	18793	10	9°423	9°946	18867	5	24°351	10°726	18941	4	1°639	13°234
18646	11	14°922	5°031	18720	9	7°052	7°460	18794	5	9°566	9°618	18868	4	24°357	10°935	18942	5	3°804	13°885
18647	8	14°966	5°489	18721	8	7°431	7°814	18795	5	9°799	9°339	18869	4	24°436	10°059	18943	6	5°060	13°195
18648	9	15°110	5°451	18722	9	7°497	7°241	18796	8	10°203	9°369	18870	19	24°890	10°736	18944	12	6°106	13°454
18649	11	15°371	5°775	18723	20	8°981	7°769	18797	8	11°504	9°255	18871	5	25°787	10°162	18945	6	6°634	13°198
18650	7	15°890	5°863	18724	6	9°543	7°125	18798*	14	11°613	9°824	18872	5	0°816	11°079	18946	6	7°132	13°698
18651	4	15°904	5°290	18725	10	10°190	7°336	18799	7	11°877	9°742	18873	5	1°006	11°161	18947	7	8°538	13°969
18652	8	15°927	5°910	18726	8	11°136	7°659	18800	5	12°745	9°301	18874	5	1°929	11°245	18948	5	8°818	13°232
18653	5	16°234	5°401	18727	4	11°660	7°676	18801	4	12°834	9°667	18875	5	2°339	11°067	18949	6	8°918	13°829
18654	5	16°695	5°675	18728	7	12°171	7°070	18802	8	13°236	9°016	18876	19	3°291	11°207	18950	6	9°106	13°493
18655	5	16°736	5°588	18729	5	13°038	7°160	18803	7	13°827	9°960	18877	18	3°415	11°925	18951	6	9°214	13°782
18656	9	19°395	5°860	18730	8	13°255	7°375	18804	4	13°912	9°837	18878	5	3°581	11°040	18952	4	9°315	13°310
18657*	20	20°643	5°831	18731	12	13°378	7°597	18805	6	15°268	9°624	18879	19	4°714	11°070	18953	5	9°726	13°005
18658	5	20°762	5°702	18732	8	13°550	7°143	18806	5	15°644	9°800	18880	10	5°484	11°478	18954	5	10°164	13°145
18659	5	21°009	5°991	18733	9	13°636	7°531	18807	4	16°051	9°699	18881	13	6°244	11°936	18955	4	11°483	13°276
18660	7	21°029	5°058	18734	4	14°388	7°487	18808	13	16°735	9°306	18882	6	6°257	11°135	18956	12	11°649	13°270
18661	6	21°662	5°387	18735	6	16°001	7°242	18809	5	16°802	9°697	18883	4	8°513	11°631	18957	4	11°845	13°358
18662	4	21°934	5°050	18736	5	16°677	7°445	18810	7	17°683	9°560	18884	10	9°903	11°404	18958	7	12°472	13°296
18663	7	22°643	5°914	18737	7	18°023	7°787	18811	7	17°693	9°107	18885	9	10°496	11°800	18959	13	12°750	13°229
18664	5	22°954	5°473	18738	4	18°193	7°619	18812	10	18°540	9°224	18886	7	11°078	11°490	18960	4	13°107	13°030
18665	6	23°219	5°006	18739	7	18°760	7°205	18813	4	18°906	9°729	18887	9	11°505	11°597	18961	10	13°111	13°539
18666	5	23°524	5°428	18740	6	18°847	7°368	18814	5	19°684	9°614	18888	8	12°368	11°472	18962	9	13°405	13°457
18667	4	24°899	5°736	18741	5	19°735	7°195	18815	19	19°986	9°374	18889	10	12°583	11°300	18963	10	13°820	13°812
18668*	40	25°136	5°184	18742	4	20°154	7°735	18816	5	20°670	9°491	18890*	13	13°441	11°552	18964	9	14°363	13°484
18669*	44	25°492	5°620	18743	8	20°324	7°393	18817	12	21°230	9°088	18891	4	13°491	11°865	18965	7	14°552	13°884
18670	7	1°049	6°264	18744	5	20°364	7°239	18818	6	21°846	9°132	18892	4	13°571	11°495	18966	10	14°590	13°369
18671	4	1°928	6°452	18745*	30	21°525	7°669	18819	6	22°964	9°876	18893	7	14°005	11°214				

18978	6	23°435	13°080	19052	6	22°562	15°783	19126	6	13°447	18°409	19200	10	17°869	20°378	19274	12	22°695	22°799
18979	12	23°464	13°015	19053	9	24°397	15°308	19127	4	13°616	18°479	19201	8	19°646	20°608	19275*	17	22°898	22°443
18980	9	24°995	13°815	19054	11	0°551	16°446	19128	5	14°185	18°406	19202	5	19°877	20°217	19276	14	23°994	22°137
18981	6	25°087	13°046	19055	11	2°684	16°100	19129	5	15°061	18°850	19203	10	22°930	20°813	19277	5	25°522	22°913
18982	5	0°756	14°004	19056*	23	3°217	16°563	19130	5	16°223	18°364	19204	5	23°359	20°847	19278	8	3°431	23°426
18983	7	1°123	14°449	19057	13	3°809	16°266	19131	5	19°945	18°920	19205	6	23°637	20°730	19279	7	3°980	23°643
18984	5	1°467	14°211	19058	5	3°882	16°780	19132	6	20°083	18°779	19206	11	24°051	20°319	19280	7	4°805	23°629
18985	5	1°926	14°436	19059	4	4°216	16°719	19133*	31	20°116	18°805	19207	7	24°478	20°700	19281	6	5°234	23°535
18986	8	3°385	14°918	19060	4	5°098	16°011	19134	10	20°191	18°403	19208	10	0°497	21°475	19282	11	7°891	23°096
18987	5	3°804	14°308	19061	5	5°513	16°186	19135	5	21°426	18°715	19209	11	0°949	21°240	19283	5	8°680	23°680
18988	7	4°359	14°631	19062	5	6°967	16°423	19136	10	1°239	19°893	19210	5	1°860	21°254	19284	6	9°004	23°070
18989	4	5°136	14°598	19063	6	8°499	16°447	19137	7	1°602	19°629	19211	10	2°104	21°289	19285	6	9°184	23°698
18990	8	5°496	14°843	19064	10	9°595	16°295	19138	7	2°678	19°462	19212	13	6°406	21°408	19286	10	11°405	23°574
18991	5	5°564	14°600	19065	5	10°288	16°421	19139	4	3°846	19°427	19213	9	7°031	21°930	19287	5	11°868	23°717
18992	5	6°948	14°591	19066	9	10°372	16°369	19140*	17	4°290	19°049	19214	10	7°731	21°040	19288	11	12°239	23°045
18993	13	6°955	14°370	19067	12	11°082	16°614	19141	14	4°362	19°230	19215	8	8°603	21°054	19289	4	13°835	23°893
18994	4	7°196	14°975	19068	9	13°360	16°184	19142*	21	4°585	19°151	19216	6	8°950	21°476	19290	5	15°674	23°477
18995	5	7°268	14°008	19069	10	13°446	16°510	19143	4	4°640	19°243	19217	5	9°687	21°819	19291	10	16°240	23°030
18996	6	7°318	14°976	19070	4	14°064	16°853	19144	6	5°261	19°464	19218	14	9°972	21°172	19292	5	16°991	23°356
18997	5	7°894	14°639	19071	10	14°138	16°248	19145	5	5°445	19°118	19219	5	10°406	21°369	19293*	23	18°264	23°375
18998*	13	10°121	14°804	19072	6	14°690	16°203	19146	6	5°651	19°760	19220	7	10°905	21°844	19294	18	19°812	23°841
18999	7	10°356	14°583	19073	8	15°436	16°910	19147	4	6°360	19°775	19221	10	11°344	21°613	19295	22	20°887	23°090
19000	4	10°953	14°338	19074	11	15°925	16°268	19148	4	7°351	19°303	19222	6	12°163	21°404	19296	7	21°893	23°626
19001*	10	11°077	14°710	19075	7	16°368	16°642	19149	12	9°363	19°963	19223	5	12°958	21°511	19297	8	23°650	23°527
19002	5	11°821	14°133	19076	7	18°271	16°989	19150	13	10°852	19°438	19224	6	14°331	21°346	19298	12	23°654	23°725
19003	7	12°515	14°711	19077	11	18°359	16°974	19151	5	10°882	19°211	19225	7	15°174	21°324	19299	15	25°822	23°177
19004	5	12°608	14°491	19078*	21	18°375	16°709	19152	4	11°581	19°846	19226*	23	15°281	21°494	19300	12	0°462	24°449
19005	4	15°428	14°983	19079	10	19°375	16°888	19153	5	11°840	19°141	19227	6	16°363	21°088	19301*	22	1°481	24°714
19006	12	15°463	14°772	19080	5	20°707	16°142	19154	8	12°065	19°266	19228	5	18°962	21°285	19302	4	1°754	24°213
19007	6	16°940	14°651	19081	9	21°528	16°509	19155	4	12°255	19°522	19229	10	19°199	21°640	19303	11	4°350	24°959
19008	11	17°050	14°120	19082	8	21°635	16°855	19156	8	12°353	19°620	19230	6	19°820	21°546	19304	8	4°791	24°826
19009	4	18°094	14°765	19083	4	22°329	16°358	19157	6	14°963	19°410	19231	9	20°156	21°984	19305	7	5°471	24°042
19010	4	19°055	14°651	19084*	10	22°800	16°601	19158	4	16°097	19°248	19232	5	20°966	21°034	19306	4	6°272	24°410
19011	13	19°879	14°441	19085	10	23°322	16°948	19159	6	16°262	19°434	19233	6	21°123	21°584	19307	14	6°576	24°208
19012	6	20°309	14°700	19086	7	24°857	16°231	19160	16	16°281	19°199	19234	5	21°136	21°716	19308	6	7°264	24°676
19013	9	20°354	14°679	19087	12	25°420	16°859	19161	5	17°255	19°484	19235	5	22°722	21°279	19309	7	8°307	24°413
19014	4	21°224	14°447	19088	8	25°535	16°945	19162	10	17°915	19°136	19236	6	23°710	21°014	19310	5	8°621	24°590
19015	9	22°174	14°699	19089	7	0°551	17°054	19163	8	18°406	19°873	19237	7	23°757	21°512	19311*	24	9°236	24°085
19016	8	22°499	14°935	19090	11	2°783	17°866	19164	7	18°476	19°393	19238	6	24°312	21°691	19312	17	10°254	24°848
19017	11	23°211	14°180	19091	8	5°298	17°208	19165	4	18°517	19°530	19239*	13	24°811	21°930	19313	11	10°907	24°882
19018	9	23°567	14°231	19092	17	5°724	17°006	19166	6	19°026	19°471	19240	5	25°420	21°395	19314	8	11°590	24°563
19019	7	23°631	14°777	19093	4	6°807	17°366	19167*	17	19°822	19°687	19241	10	25°699	21°458	19315	5	13°290	24°812
19020	6	24°105	14°423	19094	6	8°558	17°880	19168	5	20°946	19°508	19242	5	1°838	22°652	19316	5	13°455	24°086
19021	5	25°104	14°203	19095*	22	8°897	17°990	19169	7	21°580	19°756	19243	7	3°676	22°542	19317	4	16°809	24°447
19022	8	25°255	14°836	19096	11	10°415	17°635	19170	10	21°860	19°560	19244	8	3°721	22°196	19318	5	17°561	24°160
19023	14	1°006	15°993	19097	8	10°500	17°875	19171	5	23°409	19°044	19245	5	4°340	22°687	19319	10	18°278	24°648
19024	5	2°427	15°852	19098	4	10°818	17°546	19172	8	24°544	19°861	19246	9	4°537	22°475	19320	4	18°843	24°870
19025	9	3°290	15°500	19099	11	12°175	17°291	19173	6	24°790	19°478	19247	11	5°453	22°629	19321	4	19°309	24°537
19026	5	3°351	15°485	19100	9	12°542	17°711	19174	13	25°067	19°244	19248	8	5°991	22°334	19322	8	19°357	24°987
19027	5	3°608	15°792	19101	7	13°310	17°538	19175	10	25°555	19°547	19249	13	6°415	22°163	19323	8	21°080	24°752
19028	5	3°609	15°771	19102	8	13°938	17°181	19176	5	25°622	19°975	19250*	23	7°271	22°056	19324	12	21°875	24°763
19029	4	4°135	15°950	19103	7	14°150	17°483	19177	14	0°090	20°802	19251	11	8°260	22°127	19325	11	23°371	24°675
19030	10	4°213	15°939	19104	4	14°586	17°586	19178	4	0°155	20°425	19252	4	8°704	22°489	19326	7	25°024	24°594
19031	8	4°474	15°689	19105	7	14°682	17°663	19179	10	0°352	20°352	19253	5	9°208	22°774	19327	10	25°259	24°011
19032	10	7°035	15°809	19106	10	16°886	17°221	19180	13	0°702	20°039	19254	7	9°396	22°164	19328	8	3°050	25°076
19033*	13	7°355	15°381	19107	5	18°172	17°947	19181*	21	0°842	20°944	19255	9	10°389	22°912	19329	10	3°499	25°261
19034	11	8°293	15°306	19108	5	18°551	17°555	19182	16	2°743	20°045	19256	4	10°803	22°590	19330	11	4°976	25°429
19035	5	8°583	15°140	19109	5	19°301	17°272	19183	5	3°232	20°774	19257	9	11°489	22°498	19331*	14	7°875	25°327
19036	5	10°114	15°338	19110	11	20°282	17°071	19184	17	3°743	20°421	19258	4	13°171	22°588	19332	7	10°291	25°364
19037*	13	10°120	15°044	19111	12	20°946	17°675	19185	16	4°399	20°281	19259	8	13°660	22°270	19333	5	11°628	25°482
19038	7	11°091	15°894	19112	12	22°748	17°372	19186	8	4°954	20°708	19260	7	14°039	22°175	19334	5	12°930	25°989
19039	4	11°142	15°097	19113	8	23°513	17°569	19187	8	6°500	20°382	19261	5	15°356	22°436	19335	6	13°938	25°936
19040	7	12°457	15°400	19114	5	23°596	17°405	19188	7	6°916	20°350	19262	6	15°624	22°550	19336			

19348	5	22°31'1	25°6'46	19447	7	14°6'65	1°7'07	19521	7	17°48'5	3°8'55	19595	7	17°50'7	5°0'28	19669	24	3°8'86	8°9'35
19349	20	22°45'0	25°1'27	19448	5	15°7'11	1°7'24	19522	5	17°52'5	3°8'72	19596	5	18°0'94	5°7'84	19670	23	5°3'34	8°4'25
19350	9	22°58'4	25°3'77	19449	14	16°2'56	1°6'19	19523	11	18°0'18	3°2'34	19597	8	18°6'09	5°6'04	19671	5	5°3'64	8°4'81
19351	7	23°02'7	25°2'80	19450	6	16°7'51	1°4'64	19524	5	18°2'58	3°1'34	19598	6	21°8'60	5°8'39	19672	7	5°7'46	8°7'07
19352	4	24°7'43	25°1'40	19451	6	16°9'49	1°3'65	19525	5	18°3'47	3°9'26	19599	7	23°1'09	5°0'46	19673	5	6°7'36	8°1'45
				19452	6	17°2'70	1°0'09	19526	6	18°9'40	3°9'59	19600	6	23°2'14	5°4'85	19674	15	7°2'39	8°6'19
				19453	6	17°8'74	1°5'68	19527	10	19°3'96	3°6'33	19601	7	23°5'34	5°2'47	19675	6	7°3'73	8°0'56
				19454	6	18°6'76	1°3'24	19528	7	21°2'55	3°9'30	19602	5	23°6'30	5°9'23	19676	24	7°5'88	8°0'41
				19455	7	19°3'55	1°5'19	19529	6	21°2'98	3°9'70	19603	6	24°2'46	5°8'90	19677	5	7°8'25	8°1'65
				19456	9	20°1'55	1°6'47	19530	5	21°9'85	3°6'66	19604	22	1°3'15	6°1'05	19678	7	11°4'55	8°5'39
				19457	12	21°4'60	1°3'54	19531	14	22°3'24	3°7'35	19605	10	1°8'17	6°8'76	19679	5	11°7'97	8°6'99
				19458	9	24°7'41	1°7'45	19532	15	23°8'05	3°2'55	19606	7	2°0'24	6°3'04	19680	18	11°9'47	8°4'07
				19459	7	25°6'34	1°2'92	19533	7	23°8'94	3°7'57	19607	29	2°4'56	6°1'10	19681	7	11°9'70	8°9'55
				19460	14	25°6'69	1°8'97	19534	6	0°8'05	4°6'39	19608*	28	2°9'74	6°6'24	19682	6	12°1'10	8°5'26
				19461	5	0°5'03	2°1'20	19535	14	1°6'77	4°3'76	19609	7	3°3'50	6°0'74	19683	10	12°2'07	8°0'94
				19462	10	1°0'65	2°6'84	19536	5	1°9'22	4°6'62	19610	14	4°2'75	6°7'92	19684	6	12°9'86	8°1'37
				19463	7	3°9'20	2°2'08	19537	7	2°8'46	4°5'29	19611	5	5°1'40	6°4'07	19685	6	13°1'93	8°2'91
				19464	8	6°1'30	2°0'66	19538	16	4°1'75	4°0'84	19612	12	5°1'45	6°0'85	19686	6	13°2'16	8°1'75
				19465*	31	6°6'64	2°4'25	19539	16	4°2'76	4°9'00	19613	10	5°1'85	6°0'95	19687	10	13°4'86	8°8'30
				19466	7	8°4'25	2°3'85	19540	8	4°7'49	4°2'80	19614	12	5°4'41	6°3'29	19688	5	13°5'21	8°4'72
				19467	6	9°2'80	2°0'14	19541	6	6°0'25	4°4'15	19615	5	6°1'85	6°5'75	19689	7	14°1'43	8°9'46
				19468	5	10°8'95	2°7'25	19542	10	6°3'41	4°3'67	19616	13	7°5'85	6°0'25	19690	6	15°4'72	8°9'76
				19469	6	11°1'36	2°6'84	19543	5	6°8'56	4°8'65	19617	14	8°3'23	6°2'55	19691	6	19°1'26	8°3'30
				19470	5	11°5'96	2°6'67	19544	12	6°9'16	4°5'85	19618	5	8°4'43	6°8'75	19692	5	19°9'17	8°4'87
				19471	5	12°0'96	2°2'45	19545	5	7°3'54	4°1'19	19619	14	8°9'76	6°5'61	19693	11	21°2'90	8°3'37
				19472	5	12°8'40	2°9'94	19546	7	8°0'35	4°6'62	19620	7	10°0'06	6°7'51	19694	10	21°9'05	8°1'11
				19473	5	12°8'74	2°5'14	19547	6	9°4'68	4°2'75	19621	6	10°8'35	6°9'71	19695	12	22°7'15	8°4'29
				19474	7	13°6'33	2°6'25	19548	14	9°9'61	4°3'17	19622	5	11°4'65	6°7'62	19696	7	23°4'17	8°6'46
				19475	5	14°8'05	2°5'33	19549	7	11°8'34	4°5'65	19623*	21	13°7'54	6°1'17	19697	6	24°4'69	8°1'26
				19476	6	15°0'48	2°3'36	19550	20	11°8'68	4°8'90	19624*	20	14°0'59	6°5'98	19698	5	24°4'74	8°1'06
				19477	14	15°3'17	2°8'57	19551	6	12°7'00	4°2'65	19625	19	14°9'14	6°7'85	19699	12	0°2'05	9°4'65
				19478	8	15°9'86	2°9'36	19552*	38	14°4'65	4°1'67	19626*	23	15°2'70	6°6'48	19700	6	0°7'40	9°2'54
				19479	18	16°1'04	2°3'17	19553	5	15°5'48	4°9'55	19627*	40	15°6'30	6°8'50	19701	6	1°2'50	9°5'72
				19480	5	16°2'05	2°8'31	19554	5	16°0'50	4°9'94	19628	12	16°5'45	6°4'25	19702	12	2°4'12	9°6'22
				19481	5	17°0'45	2°8'00	19555	7	16°4'97	4°6'85	19629	10	17°9'35	6°0'40	19703	17	2°4'95	9°4'20
				19482	10	18°1'30	2°2'65	19556	14	18°4'00	4°0'04	19630	27	19°1'96	6°2'16	19704	7	2°6'44	9°9'63
				19483	5	18°9'08	2°4'97	19557	6	18°5'90	4°6'90	19631	10	19°8'15	6°2'66	19705	6	5°4'37	9°4'75
				19484	13	19°0'35	2°9'36	19558	7	19°0'96	4°7'46	19632	5	19°9'92	6°7'95	19706	5	5°8'93	9°2'57
				19485	6	19°3'23	2°2'15	19559	15	19°2'10	4°9'01	19633	8	22°1'56	6°3'94	19707	6	6°0'24	9°3'35
				19486	26	20°3'61	2°0'84	19560	12	19°4'89	4°3'19	19634	8	23°1'72	6°6'61	19708*	28	7°0'44	9°9'19
				19487	7	20°4'46	2°5'94	19561	8	20°2'93	4°8'81	19635	15	24°9'94	6°9'01	19709	6	8°1'10	9°7'96
				19488	6	20°7'66	2°0'74	19562	5	20°5'35	4°8'19	19636	5	25°1'75	6°3'99	19710	15	8°4'44	9°3'39
				19489	5	20°8'00	2°2'37	19563	7	22°9'35	4°7'77	19637	5	25°3'26	6°2'72	19711	6	8°7'66	9°3'56
				19490	6	21°1'20	2°3'50	19564	5	23°1'08	4°1'35	19638	5	25°3'46	6°5'17	19712	11	10°1'35	9°3'46
				19491*	32	21°5'40	2°3'96	19565	6	23°1'55	4°3'12	19639	12	0°3'59	7°1'07	19713	7	13°3'25	9°5'36
				19492	5	21°5'56	2°2'07	19566	6	23°7'04	4°0'22	19640	10	0°4'27	7°4'77	19714	5	13°9'72	9°7'65
				19493	5	21°8'38	2°2'10	19567	8	24°0'45	4°7'79	19641	21	0°5'40	7°7'64	19715	17	14°1'69	9°8'99
				19494	5	24°9'82	2°1'58	19568	5	24°7'30	4°4'59	19642	5	3°9'55	7°7'41	19716	5	14°4'00	9°8'54
				19495	5	25°2'39	2°0'45	19569	6	0°4'62	5°8'50	19643	15	4°3'21	7°6'93	19717	26	15°1'26	9°2'46
				19496	5	25°9'47	2°9'49	19570*	44	0°6'90	5°2'95	19644	6	4°9'66	7°0'95	19718	6	15°3'91	9°6'35
				19497	5	0°0'78	3°5'07	19571*	49	1°0'52	5°7'26	19645	18	6°1'26	7°9'77	19719	5	16°4'82	9°0'70
				19498	5	0°8'29	3°7'85	19572	5	1°9'25	5°8'19	19646	5	7°1'45	7°7'31	19720	5	17°1'54	9°8'96
				19499	5	3°6'03	3°1'55	19573	6	2°5'90	5°0'06	19647	7	9°0'07	7°3'48	19721	10	18°1'46	9°5'44
				19500	7	4°3'58	3°6'21	19574	7	4°7'65	5°4'59	19648	12	9°1'39	7°3'55	19722	15	18°2'45	9°0'20
				19501	20	6°0'95	3°9'05	19575	6	5°8'74	5°2'35	19649	6	11°7'25	7°5'10	19723	6	18°5'05	9°9'86
				19502	6	6°6'95	3°1'24	19576	5	6°7'75	5°6'25	19650	26	12°0'89	7°7'16	19724	5	20°0'88	9°4'09
				19503	7	7°6'20	3°2'45	19577*	26	9°1'56	5°8'25	19651	7	12°4'21	7°6'74	19725	7	20°3'58	9°7'33
				19504	8	7°6'75	3°2'97	19578	5	9°7'72	5°5'40	19652	5	13°8'52	7°2'60	19726	5	20°4'25	9°2'48
				19505	6	8°3'58	3°6'51	19579	7	10°7'84	5°5'94	19653	7	13°9'02	7°2'56	19727	5	21°1'72	9°1'55
				19506	26	10°2'96	3°0'95	19580	14	11°0'44	5°8'34	19654	6	16°1'74	7°0'75	19728	5	21°4'35	9°2'29
				19507	5	10°9'24	3°3'75	19581	6	11°4'79	5°4'34	19655	6	16°5'65	7°4'15	19729	6	21°7'61	9°2'49
				19508	10	11°4'90	3°6'39	19582	5	11°6'98	5°4'85	19656	6	17°6'34	7°7'45	19730	10	22°3'75	9°9'48
				19509	5	11°8'95	3°0'23	19583	17	12°3'02	5°3'04	19657	10	17°6'94	7°3'20	19731	10	22°8'27	9°7'57
				19510	6	12°2'42	3°9'95	19584	9	12°7'78	5°8'57	19658	9	18°0'76	7°3'50	19732	7	23°7'17	9°0'13
				19511	6	12°4'05	3°2'21	19585	6	12°9'95	5°9'47	19659	6	22°4'11	7°8'10	19733	15	24°1'92	9°3'43
				19512	6	13°8'67	3°5'65	19586	7	13°0'74	5°7'69	19660	6	22°8'12	7°3'68	19734	7	24°2'14	9°3'36
				19513	10	15°3'17	3°2'94	19587	9	13°1'05	5°8'05	19661	5	22°9'06	7°5'90	19735	7	24°8'09	9°8'51
				19514	6	15°4'52	3°5'91	19588	18	13°5'82	5°0'55	19662	6	23°2'28	7°1'92	19736	15	25°0'15	9°7'01
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19743	10	3°554	10°511	19817*	9	15°340	12°084	19891	13	14°105	14°475	19965	25	17°683	16°625	20039*	18	21°086	18°769
19744	7	3°628	10°891	19818	7	17°385	12°212	19892	6	14°708	14°567	19966	5	18°510	16°755	20040*	18	21°543	18°185
19745	15	3°915	10°004	19819	5	17°833	12°355	19893	15	15°875	14°255	19967	5	18°833	16°295	20041	8	22°785	18°732
19746	6	4°002	10°364	19820	5	18°598	12°966	19894	5	15°916	14°906	19968	7	19°412	16°056	20042	14	24°135	18°579
19747	8	4°239	10°550	19821	5	19°223	12°576	19895	5	16°282	14°975	19969	12	20°184	16°655	20043	8	0°293	19°977
19748	18	5°147	10°853	19822	6	20°203	12°122	19896	8	16°344	14°835	19970	5	21°940	16°542	20044	7	0°535	19°590
19749	6	5°966	10°473	19823	16	20°290	12°680	19897	13	16°751	14°855	19971	14	22°542	16°461	20045	14	0°805	19°356
19750	7	6°056	10°166	19824	5	21°180	12°149	19898	12	17°238	14°490	19972	6	24°505	16°411	20046	10	1°299	19°651
19751	6	6°727	10°704	19825	6	21°919	12°348	19899	9	18°003	14°390	19973	6	0°557	17°632	20047*	25	2°200	19°364
19752	5	7°071	10°107	19826	5	23°045	12°701	19900	18	18°185	14°060	19974	7	1°247	17°047	20048	7	2°708	19°014
19753	7	7°615	10°109	19827	20	23°994	12°292	19901	7	18°217	14°214	19975*	18	1°272	17°920	20049	12	2°746	19°790
19754	6	7°984	10°808	19828	5	24°034	12°836	19902	10	18°850	14°736	19976	20	1°794	17°082	20050*	23	3°345	19°475
19755	9	8°480	10°674	19829	5	24°750	12°251	19903	5	20°128	14°152	19977	8	1°830	17°474	20051	7	5°476	19°376
19756	12	9°165	10°738	19830	6	25°496	12°334	19904	8	20°186	14°283	19978	5	2°061	17°460	20052	5	5°476	19°862
19757	14	9°297	10°534	19831	7	25°752	12°125	19905	27	20°725	14°068	19979	7	4°015	17°568	20053	6	5°849	19°586
19758	20	11°355	10°677	19832	9	25°838	12°700	19906	12	21°134	14°430	19980	5	4°411	17°397	20054	7	6°104	19°575
19759	7	14°344	10°213	19833	5	0°575	13°477	19907	8	21°225	14°792	19981	5	6°324	17°691	20055	9	6°813	19°620
19760	16	16°116	10°182	19834	9	0°664	13°925	19908	18	22°995	14°666	19982	5	6°356	17°945	20056	5	7°205	19°575
19761	9	16°284	10°350	19835	6	0°747	13°156	19909	7	23°915	14°255	19983	5	6°602	17°323	20057	17	7°328	19°954
19762	11	18°658	10°294	19836	10	1°009	13°057	19910	8	0°085	15°426	19984	7	6°675	17°575	20058	10	7°475	19°094
19763	8	19°634	10°357	19837	5	1°047	13°404	19911	5	0°295	15°436	19985*	12	6°846	17°744	20059	6	8°009	19°947
19764	7	19°652	10°981	19838	11	2°163	13°869	19912	5	1°195	15°805	19986	5	6°956	17°601	20060	7	9°056	19°865
19765	6	19°686	10°281	19839	6	2°350	13°640	19913	5	2°056	15°376	19987	5	9°800	17°473	20061	6	10°223	19°555
19766	13	20°271	10°016	19840	10	2°910	13°155	19914	7	3°510	15°490	19988	18	10°705	17°085	20062	11	10°816	19°770
19767	5	21°182	10°673	19841	5	3°650	13°566	19915	5	3°758	15°435	19989*	18	10°749	17°544	20063	5	12°924	19°397
19768	19	22°996	10°456	19842	19	4°136	13°107	19916	6	3°852	15°154	19990	7	12°699	17°545	20064	7	13°806	19°983
19769	7	23°099	10°264	19843	9	4°377	13°492	19917	5	4°658	15°279	19991	7	13°456	17°026	20065	5	14°877	19°418
19770	9	23°231	10°520	19844	5	4°768	13°425	19918	7	5°545	15°061	19992	7	15°530	17°445	20066	5	16°364	19°565
19771	7	25°073	10°718	19845	5	5°856	13°055	19919	5	6°528	15°506	19993	7	15°999	17°886	20067	12	17°704	19°485
19772	17	0°458	11°552	19846	10	6°757	13°749	19920	6	8°045	15°915	19994	9	16°195	17°545	20068	5	17°865	19°262
19773	7	3°685	11°712	19847	10	6°784	13°727	19921	6	8°453	15°378	19995	7	17°195	17°315	20069	12	18°104	19°207
19774*	33	4°166	11°736	19848	6	8°226	13°250	19922	8	9°364	15°528	19996	5	17°613	17°885	20070	7	18°245	19°935
19775	6	4°892	11°443	19849	15	9°479	13°333	19923	8	9°650	15°505	19997	20	17°805	17°632	20071	6	18°319	19°381
19776	5	6°058	11°356	19850	6	10°359	13°765	19924	6	10°005	15°214	19998	8	18°298	17°777	20072	16	20°067	19°792
19777	5	6°365	11°622	19851	5	10°886	13°045	19925	5	10°255	15°571	19999	12	18°303	17°832	20073*	18	21°675	19°216
19778	5	8°392	11°595	19852	7	11°417	13°243	19926	5	11°628	15°582	20000	10	20°897	17°867	20074	6	22°240	19°496
19779	7	9°034	11°879	19853	8	11°475	13°475	19927	5	12°895	15°506	20001	5	21°525	17°881	20075	5	22°861	19°452
19780	5	9°900	11°664	19854	5	14°547	13°004	19928	5	13°286	15°780	20002	11	22°145	17°496	20076	6	25°184	19°744
19781	5	10°731	11°890	19855	10	16°164	13°206	19929	5	15°065	15°096	20003	6	22°686	17°035	20077	5	0°237	20°815
19782	6	11°555	11°255	19856	6	17°445	13°187	19930	5	15°559	15°618	20004	8	23°851	17°136	20078	6	1°366	20°076
19783	14	12°406	11°485	19857	6	18°461	13°915	19931	5	15°897	15°339	20005	5	23°985	17°976	20079	7	2°985	20°856
19784*	20	12°415	11°522	19858	6	18°885	13°258	19932	6	15°916	15°206	20006	7	24°628	17°991	20080	7	3°667	20°708
19785*	26	12°443	11°285	19859	12	19°756	13°165	19933	16	18°820	15°373	20007	7	24°936	17°180	20081	5	4°735	20°186
19786*	27	14°164	11°935	19860	8	20°162	13°378	19934	6	21°690	15°157	20008	5	3°486	18°434	20082	7	4°864	20°388
19787	5	14°358	11°555	19861	5	20°816	13°021	19935	6	21°793	15°746	20009	9	4°365	18°967	20083	7	6°236	20°924
19788	5	15°118	11°661	19862	5	20°920	13°104	19936	10	22°098	15°078	20010	5	4°658	18°759	20084	6	6°705	20°320
19789*	12	15°304	11°665	19863	6	21°408	13°615	19937	7	22°977	15°854	20011	5	5°779	18°367	20085	12	7°650	20°440
19790	6	15°834	11°967	19864	6	23°561	13°407	19938*	26	24°815	15°798	20012	6	6°340	18°025	20086	8	8°495	20°075
19791	6	16°788	11°147	19865	7	25°026	13°664	19939	18	24°825	15°760	20013	10	7°076	18°468	20087	5	8°839	20°785
19792	7	17°075	11°446	19866	7	25°145	13°145	19940	7	25°899	15°273	20014	6	8°144	18°074	20088	15	8°857	20°774
19793*	17	17°964	11°317	19867	6	0°211	14°465	19941	7	0°556	16°345	20015	5	9°293	18°385	20089	6	8°920	20°596
19794	5	18°572	11°935	19868	5	0°775	14°312	19942	14	1°129	16°965	20016	6	12°044	18°557	20090	12	9°026	20°935
19795	8	19°893	11°402	19869	7	0°936	14°946	19943	5	1°280	16°294	20017	8	12°054	18°282	20091	6	9°096	20°619
19796	9	20°673	11°117	19870	5	2°355	14°898	19944	12	2°319	16°332	20018	9	12°149	18°103	20092	10	10°055	20°861
19797	9	20°745	11°926	19871	7	2°704	14°835	19945	10	2°956	16°727	20019	5	12°505	18°005	20093	6	10°386	20°865
19798	6	20°829	11°063	19872	6	3°034	14°642	19946	6	3°127	16°785	20020	6	13°004	18°450	20094	6	11°415	20°026
19799	7	21°070	11°766	19873	6	3°885	14°045	19947	16	3°136	16°265	20021	7	14°210	18°979	20095	8	11°458	20°459
19800	12	22°165	11°400	19874	5	4°465	14°425	19948	10	4°527	16°876	20022	12	14°325	18°779	20096	6	12°293	20°375
19801	10	22°445	11°546	19875	7	6°078	14°089	19949	5	4°705	16°066	20023	5	14°788	18°822	20097	10	12°370	20°405
19802*	24	25°276	11°895	19876	16	6°705	14°529	19950	6	5°055	16°970	20024	6	15°073	18°895	20098	6	12°836	20°162
19803	6	0°956	12°916	19877	6	7°485	14°785	19951	7	5°790	16°691	20025	14	16°168	18°659	20099	5	13°490	20°863
19804	6	1°735	12°508	19878	7	7°988	14°492	19952	5	7°130	16°045	20026	5	16°268	18°657	20100	12	13°815	20°568
19805	8	2°131	12°853	19879	10	8°566	14°255	19953	7	7°155	16°148	20027	5	16°585	18°695	20101	10	14°167	20°204

20113	6	24°035	20°644	20187	5	21°257	23°738	R. A. 7^h 3^m Plate 1499; 1900 Jan. 17. Provisional Constants. A B C —00036 +00426 —2924 D E F —00435 —00048 —1364 Mag. = 14.1 — 1.02 $\sqrt{d}$	20357	9	15°602	1°761	20431	11	11°735	3°125
20114	5	24°552	20°894	20188	9	21°812	23°326		20358	7	16°221	1°136	20432	4	11°845	3°309
20115	6	0°086	21°810	20189	16	24°240	23°501		20359	5	16°228	1°383	20433	10	12°142	3°090
20116	6	1°189	21°503	20190	6	25°835	23°764		20360	4	17°257	1°250	20434	4	12°208	3°700
20117	9	1°466	21°557	20191	6	0°834	24°708		20361	12	17°861	1°182	20435	9	13°867	3°897
20118	11	3°171	21°110	20192	8	1°064	24°120		20362	5	17°958	1°656	20436	10	14°141	3°437
20119	12	4°025	21°471	20193	6	4°394	24°293		20363*	61	18°547	1°043	20437	5	14°951	3°942
20120	7	5°625	21°757	20194	9	4°419	24°784		20364	13	18°625	1°336	20438*	31	15°060	3°502
20121	7	6°142	21°913	20195	10	4°605	24°595		20365	4	19°063	1°215	20439	5	15°105	3°425
20122	6	8°255	21°866	20196	28	5°544	24°463		20366	6	19°555	1°365	20440	13	15°248	3°512
20123*	24	8°569	21°684	20197	7	6°344	24°414	20367	6	20°904	1°724	20441	4	16°969	3°222	
20124	9	9°355	21°700	20198*	31	7°625	24°425	20368*	23	21°021	1°460	20442	5	16°977	3°086	
20125	6	10°458	21°695	20199	9	8°481	24°250	20369	15	21°470	1°372	20443	4	17°691	3°606	
20126	5	10°955	21°225	20200	6	8°747	24°974	20370	11	22°113	1°530	20444	8	17°820	3°874	
20127	7	11°044	21°986	20201	14	9°087	24°408	20371	11	23°517	1°628	20445	8	19°107	3°838	
20128	6	11°186	21°283	20202	8	9°621	24°086	20372	11	23°774	1°074	20446	11	19°641	3°906	
20129	7	11°284	21°667	20203	7	9°776	24°132	20373	10	23°966	1°865	20447	15	21°167	3°865	
20130	12	13°736	21°486	20204	6	10°186	24°607	20374	6	24°478	1°469	20448	5	21°525	3°572	
20131	5	14°181	21°471	20205	5	10°627	24°573	20375	10	0°942	2°062	20449*	28	21°631	3°941	
20132	7	16°348	21°636	20206	5	10°888	24°469	20376	6	1°038	2°410	20450	11	21°776	3°117	
20133	7	17°449	21°745	20207	9	11°766	24°105	20377	7	1°190	2°470	20451	5	22°634	3°438	
20134	6	18°025	21°454	20208	7	13°510	24°945	20378	7	1°446	2°358	20452	6	23°057	3°266	
20135	7	19°366	21°314	20209	7	14°188	24°394	20379	15	1°875	2°204	20453	8	23°216	3°342	
20136	6	19°545	21°337	20210	5	14°781	24°197	20380	12	2°755	2°782	20454	16	24°421	3°217	
20137	5	19°976	21°434	20211	7	16°449	24°925	20381	4	3°896	2°790	20455	10	0°126	4°088	
20138	6	21°259	21°960	20212	10	17°745	24°796	20382	8	4°380	2°533	20456	6	0°973	4°783	
20139	6	22°032	21°255	20213	6	21°829	24°875	20383	5	6°283	2°438	20457	5	1°024	4°323	
20140	5	23°295	21°815	20214	7	21°946	24°240	20384	4	6°367	2°384	20458	24	2°326	4°556	
20141	15	24°326	21°425	20215*	19	21°956	24°335	20385	12	6°615	2°749	20459	11	3°910	4°005	
20142*	15	0°588	22°046	20216*	22	22°064	24°189	20386	5	6°959	2°100	20460	5	4°114	4°440	
20143	7	3°373	22°953	20217	5	22°812	24°416	20387	11	7°062	2°674	20461	7	5°565	4°038	
20144	9	3°546	22°989	20218	5	24°675	24°800	20388	4	7°398	2°650	20462	10	6°004	4°908	
20145	5	8°646	22°904	20219	11	24°899	24°078	20389	7	8°740	2°893	20463	8	6°735	4°635	
20146*	29	8°965	22°206	20220	24	2°838	25°872	20390	5	9°061	2°166	20464	14	6°824	4°880	
20147	7	9°155	22°896	20221	14	2°840	25°905	20391	7	9°314	2°767	20465	9	6°869	4°835	
20148	6	10°425	22°769	20222	19	4°565	25°253	20392	4	9°374	2°964	20466	10	7°544	4°894	
20149	5	10°471	22°148	20223	5	4°740	25°904	20393	4	9°685	2°521	20467	7	7°796	4°157	
20150	8	14°521	22°408	20224	6	8°478	25°386	20394	4	10°894	2°609	20468	9	8°075	4°915	
20151	6	15°244	22°895	20225	7	11°642	25°405	20395	14	11°346	2°271	20469	7	8°111	4°948	
20152	5	15°254	22°389	20226*	9	11°655	25°405	20396	6	11°885	2°987	20470	6	8°136	4°855	
20153	6	15°709	22°282	20227	9	11°923	25°145	20397	6	12°285	2°920	20471	11	8°230	4°990	
20154	5	16°146	22°155	20228	6	13°829	25°915	20398	4	12°391	2°550	20472	6	8°571	4°220	
20155	9	16°286	22°659	20229	8	14°120	25°977	20399	5	12°460	2°041	20473	12	9°361	4°583	
20156	10	16°634	22°471	20230	5	15°686	25°296	20400	7	14°309	2°325	20474	10	9°988	4°543	
20157	5	17°316	22°266	20231	9	16°166	25°245	20401	5	15°693	2°630	20475	5	10°951	4°358	
20158	6	17°775	22°353	20232	10	17°452	25°713	20402	9	16°458	2°385	20476	5	11°745	4°873	
20159	7	17°986	22°602	20233	11	17°600	25°695	20403	7	16°896	2°722	20477	11	12°478	4°713	
20160	5	20°112	22°263	20234	13	17°746	25°884	20404	14	16°946	2°262	20478	7	13°306	4°345	
20161	7	20°685	22°523	20235	7	17°836	25°527	20405	9	18°386	2°159	20479	5	14°789	4°266	
20162	7	21°081	22°695	20236	13	18°003	25°277	20406	6	18°398	2°597	20480	5	15°641	4°288	
20163	6	21°308	22°784	20237	7	18°223	25°417	20407	18	18°772	2°341	20481	6	16°266	4°608	
20164*	22	21°586	22°335	20238	10	18°265	25°408	20408	8	19°080	2°365	20482	6	16°556	4°393	
20165	6	22°052	22°591	20239	6	18°495	25°414	20409	16	19°617	2°155	20483	7	19°649	4°048	
20166	20	23°653	22°421	20240	7	21°255	25°346	20410	10	19°703	2°128	20484	9	20°315	4°027	
20167	8	25°742	22°730	20241	5	22°325	25°645	20411	5	20°015	2°265	20485	7	20°941	4°878	
20168	5	1°315	23°013					20412	7	20°305	2°723	20486	7	21°237	4°359	
20169	19	1°614	23°276					20413	10	23°069	2°868	20487	5	21°248	4°401	
20170	5	3°338	23°615					20414	8	23°243	2°073	20488	9	21°613	4°846	
20171	7	4°894	23°686					20415	9	23°529	2°227	20489	10	22°407	4°219	
20172	18	5°065	23°194					20416	7	23°727	2°320	20490	7	22°434	4°253	
20173	10	7°094	23°734					20417	14	0°027	3°585	20491	4	22°745	4°210	
20174	5	7°378	23°282					20418	7	1°426	3°020	20492	9	25°166	4°586	
20175	5	7°851	23°454					20419	9	2°166						

20505	14	7°243	5°076	20579	10	23°789	6°183	20653	7	19°712	8°846	20727	12	11°964	10°642	20801	8	7°723	12°075
20506	4	7°418	5°077	20580	4	24°166	6°287	20654	7	19°795	8°195	20728*	12	12°636	10°074	20802	5	10°745	12°973
20507	12	8°036	5°819	20581	6	24°295	6°112	20655*	23	20°692	8°015	20729	9	13°494	10°155	20803	6	10°776	12°860
20508	5	8°361	5°904	20582	10	25°522	6°684	20656	6	20°847	8°554	20730	6	13°836	10°857	20804	6	12°733	12°176
20509	4	8°579	5°962	20583	8	25°908	6°190	20657	12	20°926	8°187	20731	7	14°424	10°957	20805	5	14°164	12°153
20510	4	9°446	5°882	20584	8	1°050	7°695	20658	4	21°137	8°568	20732	5	15°361	10°605	20806	5	15°836	12°115
20511	10	10°889	5°918	20585	15	1°271	7°216	20659	7	21°196	8°535	20733	7	15°845	10°061	20807	5	16°884	12°384
20512	11	11°239	5°981	20586	5	1°382	7°723	20660	9	21°371	8°253	20734	9	16°557	10°310	20808	5	17°016	12°574
20513	10	13°145	5°457	20587	10	2°225	7°921	20661	8	22°213	8°338	20735	10	17°165	10°850	20809	23	17°316	12°113
20514	5	13°865	5°531	20588	4	3°025	7°438	20662	4	22°340	8°743	20736	7	17°508	10°159	20810	7	19°555	12°197
20515	5	15°216	5°944	20589	11	3°124	7°946	20663	10	22°555	8°301	20737	6	17°740	10°900	20811	5	19°785	12°208
20516	4	16°239	5°408	20590	13	3°149	7°711	20664	5	22°773	8°839	20738	5	17°916	10°531	20812	16	22°694	12°547
20517	9	16°874	5°914	20591	6	4°644	7°396	20665	4	24°068	8°864	20739	9	18°287	10°471	20813	9	22°864	12°062
20518	7	16°958	5°871	20592	13	5°364	7°563	20666	14	24°824	8°755	20740	11	18°920	10°436	20814*	36	23°005	12°198
20519	11	16°979	5°414	20593	10	5°754	7°339	20667	5	24°925	8°045	20741	8	18°945	10°609	20815	4	23°661	12°100
20520	8	17°235	5°569	20594	6	8°540	7°002	20668	7	25°743	8°442	20742	10	19°825	10°858	20816	4	23°965	12°649
20521	11	17°292	5°550	20595	8	9°419	7°484	20669	8	0°028	9°346	20743	8	20°133	10°697	20817	4	24°801	12°181
20522	7	18°118	5°735	20596	7	9°555	7°832	20670	14	0°507	9°667	20744	4	20°717	10°867	20818	11	24°817	12°138
20523	15	18°262	5°996	20597	6	9°732	7°506	20671	8	0°526	9°663	20745	11	21°006	10°209	20819	4	25°812	12°696
20524	4	19°104	5°500	20598	4	10°369	7°727	20672	6	1°697	9°588	20746*	22	21°344	10°262	20820	6	0°396	13°164
20525	10	19°120	5°046	20599	10	11°550	7°604	20673	5	1°946	9°682	20747	4	21°606	10°892	20821	9	1°409	13°976
20526	5	20°277	5°853	20600	4	11°685	7°743	20674	5	2°050	9°669	20748	4	22°295	10°537	20822	9	1°517	13°456
20527*	46	22°309	5°529	20601	13	12°725	7°603	20675	4	3°275	9°093	20749	10	22°702	10°364	20823	5	1°824	13°550
20528	8	22°358	5°510	20602	13	12°845	7°305	20676	12	3°402	9°915	20750	12	22°827	10°288	20824	4	1°938	13°516
20529	5	23°627	5°835	20603	11	14°795	7°214	20677	4	5°084	9°981	20751	18	24°005	10°180	20825	10	2°205	13°004
20530	4	25°074	5°578	20604	4	15°307	7°216	20678	10	5°689	9°568	20752	5	24°145	10°034	20826	9	2°444	13°365
20531	5	25°084	5°041	20605	5	15°538	7°201	20679	6	6°445	9°924	20753	6	24°473	10°724	20827	5	2°580	13°229
20532	4	25°975	5°153	20606	11	15°568	7°564	20680	9	7°085	9°642	20754	5	24°525	10°631	20828	7	3°282	13°838
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20536	4	1°560	6°468	20610	9	17°426	7°966	20684*	14	12°350	9°632	20758	7	25°770	10°207	20832	9	4°840	13°326
20537	6	1°589	6°582	20611	4	18°235	7°508	20685*	11	12°490	9°595	20759	8	1°406	11°032	20833	4	5°043	13°543
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20539	8	2°020	6°896	20613	7	19°403	7°496	20687	6	12°734	9°260	20761	8	6°221	11°501	20835	8	6°494	13°745
20540	4	3°832	6°153	20614	4	20°448	7°050	20688	6	13°554	9°364	20762	8	6°438	11°026	20836	8	8°408	13°669
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20542	10	5°222	6°003	20616	7	20°904	7°329	20690	6	14°123	9°859	20764	4	8°278	11°760	20838	9	8°929	13°225
20543	5	5°638	6°024	20617	12	21°354	7°468	20691	8	14°909	9°434	20765	4	8°504	11°998	20839	4	9°135	13°039
20544	20	5°715	6°542	20618	7	21°620	7°347	20692	17	15°254	9°672	20766	12	9°490	11°070	20840	6	9°156	13°159
20545	7	5°845	6°115	20619	5	21°835	7°105	20693	5	16°200	9°548	20767	13	11°538	11°024	20841	15	9°591	13°201
20546	11	6°612	6°403	20620	7	22°874	7°266	20694	4	16°875	9°663	20768	6	11°965	11°877	20842	6	9°676	13°124
20547	5	6°629	6°651	20621	13	23°062	7°328	20695	6	17°068	9°143	20769	9	12°533	11°771	20843	9	11°599	13°964
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20555	4	9°473	6°980	20629	8	2°436	8°015	20703	5	20°379	9°918	20777	16	19°276	11°002	20851	6	16°979	13°120
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20559	13	11°666	6°614	20633	6	6°063	8°015	20707	4	22°362	9°489	20781	9	20°855	11°254	20855	7	21°111	13°900
20560	6	12°039	6°550	20634	4	6°721	8°919	20708	4	22°727	9°041	20782	4	22°030	11°584	20856	7	21°299	13°182
20561	6	12°335	6°433	20635	23	7°149	8°250	20709	14	23°323	9°947	20783	5	23°165	11°193	20857	9	22°358	13°481
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20568	12	14°806	6°895	20642	6	11°796	8°914	20716	9	1°134	10°166	20790*	24	1°628	12°206	208			

20875	7	15°311	14°373	20949	6	10°690	16°228	21023	9	7°250	18°289	21097	14	6°520	20°168	21171	6	16°896	22°865
20876	8	15°435	14°987	20950	6	10°845	16°781	21024	15	8°244	18°524	21098	17	7°046	20°091	21172	17	17°358	22°022
20877	5	15°652	14°062	20951	8	11°676	16°886	21025	4	9°470	18°982	21099	10	7°225	20°426	21173	9	18°288	22°903
20878	19	16°028	14°320	20952	4	12°752	16°699	21026	7	7°794	18°995	21100	5	7°245	20°048	21174	9	18°452	22°765
20879	6	17°573	14°882	20953	4	12°830	16°325	21027	7	10°212	18°331	21101*	22	8°312	20°038	21175	13	19°134	22°301
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20882	4	18°446	14°788	20956	13	14°061	16°832	21030	6	11°448	18°804	21104	7	9°596	20°582	21178	7	20°903	22°966
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20884	7	20°394	14°852	20958	8	15°839	16°677	21032	7	11°951	18°666	21106	4	13°861	20°235	21180	18	23°136	22°045
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20900	6	4°294	15°800	20974	6	25°859	16°755	21048	7	22°616	18°925	21122	7	6°083	21°533	21196	27	14°011	23°314
20901	13	4°742	15°200	20975	11	0°282	17°468	21049	10	22°985	18°966	21123	5	6°587	21°835	21197	8	15°343	23°514
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20917	12	16°371	15°953	20991	6	12°654	17°343	21065	5	12°416	19°469	21139	14	17°545	21°426	21213	13	1°433	24°393
20918	5	18°004	15°262	20992*	22	13°615	17°690	21066	5	12°651	19°695	21140	8	18°201	21°396	21214	8	2°363	24°062
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20921	10	19°439	15°586	20995	4	16°856	17°549	21069	5	13°698	19°485	21143	6	19°795	21°206	21217	7	5°199	24°983
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20924	5	20°332	15°358	20998	4	17°509	17°695	21072	5	14°715	19°968	21146	5	20°752	21°004	21220	10	5°844	24°281
20925	14	20°906	15°993	20999	13	18°495	17°217	21073*	21	15°132	19°368	21147	5	21°565	21°555	21221	10	7°615	24°555
20926	7	22°345	15°225	21000	11	18°608	17°680	21074	5	15°695	19°061	21148*	30	25°136	21°536	21222	12	8°014	24°965
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20928	8	24°048	15°451	21002	4	19°094	17°277	21076	4	16°737	19°264	21150	18	0°163	22°755	21224	6	8°996	24°694
20929	11	24°515	15°783	21003*	22	19°181	17°045	22077	4	17°526	19°472	21151	5	2°126	22°205	21225	7	9°496	24°537
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20933*	25	1°225	16°115	21007	16	22°146	17°780	21081	10	18°776	19°395	21155	9	6°609	22°324	21229	16	11°969	24°289
20934	18	1°234	16°075	21008	4	23°562	17°505	21082	15	20°471	19°456	21156	6	7°175	22°515	21230	14	12°813	24°761
20935	5	2°607	16°164	21009	4	24°036	17°156	21083	4	20°513	19°388	21157	12	7°933	22°338	21231	11	13°126	24°034
20936	5	2°997	16°637	21010	13	24°075	17°762	21084	14	21°773	19°815	21158	12	8°203	22°415	21232	7	13°838	24°276
20937	13	3°070	16°683	21011	9	24°989	17°146	21085	17	22°870	19°751	21159							

21245	5	23°457	24°554	21320	11	23°217	0°747	21394	7	15°904	4°473	21468	5	12°466	7°777	21542	10	21°734	9°161
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21248	6	4°980	25°388	21323	7	5°306	1°591	21397	5	21°244	4°755	21471	5	15°541	7°400	21545	5	23°542	9°679
21249	8	5°666	25°842	21324	5	6°055	1°797	21398	8	21°360	4°786	21472	7	15°804	7°467	21546	19	0°125	10°262
21250*	32	6°584	25°747	21325	25	6°079	1°120	21399	6	22°314	4°475	21473	10	16°146	7°340	21547	5	0°656	10°705
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21252	9	7°335	25°486	21327*	17	9°435	1°485	21401	5	22°876	4°896	21475	6	16°895	7°513	21549	8	1°296	10°555
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21254	5	9°085	25°179	21329	5	13°237	1°692	21403	7	4°196	5°128	21477	5	17°762	7°727	21551	6	1°893	10°255
21255	7	10°135	25°015	21330	6	14°694	1°310	21404	6	4°246	5°355	21478	7	19°462	7°749	21552	6	2°345	10°513
21256	17	10°251	25°136	21331	10	15°787	1°585	21405	7	4°340	5°706	21479*	30	20°023	7°326	21553	12	2°361	10°405
21257	20	10°677	25°226	21332	6	16°745	1°573	21406	7	4°522	5°296	21480*	27	20°534	7°290	21554	7	6°735	10°602
21258	11	11°005	25°011	21333	9	18°520	1°850	21407	5	5°025	5°475	21481	7	22°060	7°965	21555	6	8°895	10°224
21259	5	11°409	25°210	21334	6	24°687	1°084	21408	9	5°588	5°277	21482	6	22°314	7°714	21556	10	9°727	10°207
21260	4	11°703	25°664	21335	9	3°105	2°387	21409	6	5°847	5°227	21483	6	23°926	7°334	21557	6	11°312	10°675
21261	7	11°744	25°074	21336*	28	3°616	2°075	21410	12	6°284	5°375	21484	7	25°164	7°536	21558	5	12°344	10°359
21262	4	12°705	25°455	21337	5	3°872	2°047	21411	7	6°976	5°148	21485	6	25°712	7°535	21559	7	15°975	10°743
21263	6	14°866	25°117	21338	6	4°115	2°064	21412	12	9°086	5°725	21486	7	25°835	7°555	21560	6	16°410	10°421
21264	4	15°945	25°173	21339	6	4°566	2°805	21413	12	9°864	5°225	21487	13	0°917	8°823	21561	5	18°744	10°534
21265	5	16°185	25°200	21340	6	8°077	2°383	21414	9	10°273	5°550	21488	6	1°833	8°487	21562	6	19°376	10°562
21266	7	16°211	25°894	21341	6	10°453	2°312	21415	7	10°303	5°025	21489	8	2°235	8°694	21563	6	20°366	10°934
21267	13	16°438	25°363	21342	6	11°095	2°794	21416	5	10°493	5°266	21490	6	3°035	8°240	21564	15	20°408	10°324
21268	8	16°982	25°317	21343	7	11°472	2°537	21417	12	10°604	5°194	21491	6	4°018	8°764	21565	7	21°351	10°044
21269	5	17°112	25°764	21344	12	12°744	2°405	21418	19	10°904	5°081	21492	5	5°500	8°143	21566	12	21°696	10°169
21270	14	19°449	25°704	21345	6	13°715	2°855	21419	6	11°182	5°838	21493*	27	6°232	8°530	21567	7	23°446	10°715
21271	16	19°485	25°145	21346*	35	15°505	2°935	21420	5	11°280	5°594	21494	6	6°767	8°190	21568	7	23°476	10°419
21272	7	20°526	25°383	21347*	17	16°470	2°391	21421	12	11°675	5°571	21495	6	8°743	8°947	21569	8	1°748	11°840
21273	5	20°668	25°272	21348	7	17°100	2°139	21422*	39	13°395	5°994	21496	6	9°672	8°836	21570	6	2°910	11°858
21274	7	21°452	25°302	21349	6	18°265	2°815	21423	20	14°697	5°641	21497*	13	11°409	8°228	21571	10	4°227	11°739
21275	13	22°154	25°286	21350	7	19°425	2°883	21424	12	17°385	5°098	21498	7	11°657	8°906	21572	6	4°628	11°367
21276	13	25°705	25°405	21351	10	19°822	2°625	21425	7	17°976	5°005	21499	5	15°814	8°224	21573	8	5°804	11°783
				21352	6	21°704	2°490	21426	14	18°750	5°014	21500	6	15°934	8°932	21574	7	6°375	11°709
				21353	6	22°198	2°433	21427*	26	19°635	5°433	21501	9	16°614	8°169	21575	6	6°536	11°402
				21354	12	22°284	2°194	21428	5	21°612	5°937	21502	6	17°134	8°663	21576	12	10°135	11°952
				21355	6	22°784	2°985	21429	5	22°384	5°184	21503	8	18°541	8°575	21577	7	14°886	11°625
				21356	7	23°963	2°529	21430	10	22°963	5°420	21504	5	20°178	8°140	21578	9	16°134	11°075
				21357	7	24°614	2°987	21431	6	25°882	5°816	21505	7	20°325	8°088	21579	8	17°363	11°515
				21358	15	0°406	3°289	21432	9	1°575	6°735	21506	17	20°413	8°245	21580	7	17°843	11°142
				21359	16	2°278	3°735	21433	7	19°949	6°235	21507	6	20°778	8°350	21581	5	18°587	11°837
				21360	5	2°326	3°526	21434	6	3°368	6°156	21508	11	21°621	8°162	21582	5	18°951	11°804
				21361	5	4°507	3°735	21435	5	4°277	6°428	21509	7	22°265	8°398	21583	6	19°605	11°575
				21362	6	5°905	3°157	21436	5	5°731	6°065	21510	8	23°055	8°295	21584	11	19°874	11°756
				21363	6	7°145	3°458	21437	5	5°757	6°445	21511	7	23°134	8°342	21585	12	20°363	11°217
				21364	8	9°875	3°295	21438	6	7°852	6°366	21512	9	25°155	8°825	21586	9	20°878	11°952
				21365	9	10°915	3°470	21439	9	7°874	6°947	21513	6	25°639	8°999	21587	8	20°945	11°281
				21366	6	10°921	3°227	21440	6	8°797	6°583	21514	7	0°098	9°883	21588	8	22°295	11°183
				21367	8	11°135	3°175	21441*	17	9°548	6°741	21515	5	0°365	9°682	21589	13	22°604	11°168
				21368	12	13°473	3°840	21442	6	10°472	6°976	21516	5	0°674	9°413	21590	7	22°860	11°222
				21369	15	14°680	3°337	21443	6	12°105	6°338	21517	10	0°678	9°119	21591	7	25°827	11°818
				21370*	25	17°400	3°783	21444*	17	14°260	6°212	21518	7	0°795	9°734	21592	10	0°977	12°204
				21371	5	17°545	3°518	21445	6	15°364	6°057	21519	7	1°775	9°478	21593	6	2°562	12°164
				21372	6	20°617	3°360	21446	12	18°531	6°480	21520	20	5°616	9°457	21594	11	3°782	12°337
				21373	6	21°264	3°080	21447	12	19°700	6°880	21521	8	6°683	9°884	21595	6	5°375	12°477
				21374*	32	21°469	3°801	21448	7	21°155	6°878	21522	7	6°872	9°872	21596	8	6°824	12°396
				21375	6	22°846	3°414	21449	8	22°768	6°413	21523	8	8°294	9°372	21597	7	7°273	12°212
				21376	17	23°784	3°325	21450	6	23°763	6°207	21524	9	9°528	9°945	21598	5	8°172	12°567
				21377	5	25°366	3°314	21451	5	24°753	6°025	21525	9	9°628	9°387	21599	6	9°466	12°769
				21378	8	1°177	4°645	21452	5	25°164	6°241	21526*	12	9°704	9°336	21600	6	9°558	12°178
				21379	7	3°441	4°806	21453	7	25°429	6°896	21527	5	9°819	9°551	21601	6	10°316	12°236
				21380	5	3°641	4°414	21454	17	0°696	7°096	21528	5	9°934	9°535	21602	18	10°705	12°622
				21381	15	4°880	4°355	21455	7	1°674	7°714	21529	7	10°795	9°451	21603	5	12°486	12°715
				21382	6	5°260	4°844	21456	10	3°294	7°585	21530	10	11°061	9°862	21604	6	12°510	12°519
				21383	10	5°948	4°900	21457	10	4°346	7°707	21531	5	12°508	9°447	21605	6	12°684	12°289
				21384	6	6°505	4°734	21458	7	5°821	7°304	21532*	26	12°742	9°441	21606	10	13°344	12°830
				21385	9	7°725	4°664	21459	7	6°602	7°304	21533	5	14°881	9°043	21607	5	15°144	12°739
				21386	7	7°780	4°555	21460	7	7°587	7°956	21534	6	16°754	9°318	21608	7	15°180	12°705
				21387	5	8°315	4°804	21461	7	8°577	7°511	21535	10	17°094	9°349	21609	6	15°487	12°449

21616	11	21'995	12'425	21690	15	6'956	15'121	21764	5	8'926	17'813	21838	10	19'515	19'805	21912	5	18'334	22'986
21617	7	22'037	12'339	21691	8	8'056	15'726	21765	6	10'411	17'631	21839	7	21'614	19'744	21913	12	18'761	22'102
21618	7	22'255	12'113	21692	7	8'549	15'326	21766	11	12'085	17'095	21840	6	24'675	19'860	21914	9	20'960	22'564
21619	15	25'470	12'624	21693	6	9'310	15'730	21767	8	12'401	17'864	21841	7	24'712	19'519	21915	8	22'766	22'694
21620	16	25'754	12'324	21694	10	10'345	15'123	21768	9	12'408	17'914	21842*	50	1'126	20'825	21916	6	24'043	22'866
21621	9	3'367	13'423	21695	6	10'515	15'612	21769	14	12'430	17'411	21843	15	1'161	20'203	21917	9	0'773	23'301
21622	6	4'711	13'135	21696	6	12'595	15'744	21770	7	12'901	17'114	21844	9	2'954	20'246	21918	6	0'802	23'961
21623	17	5'268	13'795	21697	20	14'386	15'350	21771	18	13'500	17'106	21845	9	3'030	20'513	21919	11	3'156	23'597
21624	12	5'602	13'484	21698	6	14'656	15'954	21772	17	13'597	17'741	21846	6	3'078	20'713	21920	14	4'167	23'696
21625*	54	6'707	13'655	21699	8	16'946	15'031	21773	10	14'250	17'141	21847*	31	3'275	20'199	21921	22	4'723	23'814
21626	7	8'720	13'634	21700	6	17'609	15'153	21774	7	16'242	17'670	21848	5	5'706	20'554	21922	6	9'294	23'859
21627	12	8'855	13'135	21701	7	18'056	15'529	21775	16	17'465	17'045	21849	7	5'771	20'904	21923	7	9'934	23'322
21628	16	9'754	13'853	21702	8	18'287	15'320	21776	8	18'976	17'405	21850	5	7'675	20'915	21924	17	9'946	23'365
21629	8	10'527	13'366	21703	14	19'286	15'898	21777	11	19'047	17'744	21851	5	8'149	20'953	21925	5	10'974	23'286
21630	9	11'335	13'982	21704	5	19'595	15'743	21778	13	19'642	17'487	21852	5	8'276	20'584	21926	6	12'174	23'470
21631	22	11'708	13'365	21705	7	20'184	15'684	21779	6	20'342	17'458	21853	6	9'683	20'573	21927	6	13'560	23'744
21632	17	11'914	13'291	21706	6	22'490	15'236	21780	5	21'424	17'257	21854	9	10'546	20'212	21928	10	13'905	23'357
21633	8	14'805	13'612	21707	6	22'566	15'556	21781	7	21'612	17'495	21855	5	10'692	20'644	21929	19	16'311	23'494
21634	6	15'377	13'623	21708	9	22'610	15'233	21782	6	22'819	17'146	21856*	15	10'855	20'305	21930	10	16'386	23'113
21635	8	17'753	13'967	21709	5	23'495	15'936	21783	12	23'342	17'269	21857	10	10'995	20'845	21931	7	17'036	23'205
21636	7	21'626	13'567	21710	6	24'089	15'093	21784	6	25'280	17'037	21858	7	11'705	20'788	21932	7	18'560	23'263
21637	6	22'584	13'986	21711	6	24'464	15'604	21785	8	0'575	18'085	21859*	33	11'995	20'774	21933	10	18'936	23'983
21638	10	23'479	13'146	21712	7	24'515	15'603	21786	5	0'631	18'657	21860	9	12'900	20'490	21934	10	20'110	23'204
21639*	27	0'921	14'504	21713	16	1'486	16'566	21787	12	0'749	18'634	21861	7	15'187	20'099	21935	6	21'135	23'613
21640	10	1'040	14'205	21714	10	2'006	16'469	21788	5	0'895	18'184	21862	8	16'538	20'771	21936	6	21'513	23'747
21641	6	1'696	14'481	21715	6	2'106	16'796	21789	13	1'213	18'065	21863	12	18'405	20'818	21937	10	21'833	23'506
21642	5	1'756	14'117	21716	17	2'514	16'381	21790	5	1'645	18'354	21864	10	18'916	20'005	21938	6	4'164	24'439
21643	9	2'405	14'506	21717	9	2'824	16'716	21791	9	2'347	18'133	21865	5	19'398	20'413	21939	6	4'825	24'727
21644	7	4'246	14'000	21718	6	3'238	16'368	21792	9	2'734	18'179	21866	6	19'687	20'580	21940	6	4'885	24'471
21645	6	4'475	14'421	21719	13	4'175	16'494	21793	12	2'805	18'365	21867	5	19'930	20'933	21941	6	6'124	24'864
21646	7	5'164	14'148	21720	13	5'019	16'116	21794	5	5'585	18'454	21868	8	20'090	20'448	21942	10	6'405	24'077
21647	7	5'861	14'316	21721	6	5'668	16'715	21795	5	5'694	18'575	21869	10	20'244	20'553	21943	10	6'906	24'446
21648	13	6'227	14'161	21722	8	5'983	16'707	21796	5	6'043	18'715	21870	7	20'890	20'289	21944	15	7'043	24'577
21649	13	6'783	14'582	21723	10	6'185	16'038	21797	11	6'405	18'515	21871	9	20'965	20'225	21945	8	7'795	24'112
21650	8	7'224	14'187	21724	7	8'546	16'606	21798	6	8'524	18'087	21872	7	23'199	20'599	21946	7	9'614	24'095
21651	6	7'534	14'831	21725	6	8'974	16'985	21799	8	9'854	18'989	21873	17	23'634	20'897	21947	10	9'735	24'104
21652	5	7'854	14'356	21726	6	9'670	16'035	21800	6	11'031	18'025	21874	16	24'455	20'062	21948	8	9'964	24'418
21653	6	8'957	14'897	21727	10	10'600	16'840	21801	6	13'775	18'883	21875	12	24'545	20'334	21949	5	10'262	24'055
21654	6	9'415	14'684	21728	15	11'105	16'946	21802	6	14'874	18'764	21876	12	24'819	20'317	21950	20	10'841	24'398
21655	13	10'025	14'884	21729	10	11'904	16'256	21803	9	15'456	18'216	21877*	33	1'476	21'593	21951	12	11'585	24'760
21656	5	12'390	14'515	21730	6	12'953	16'795	21804*	27	15'475	18'165	21878	7	1'738	21'555	21952	7	12'805	24'722
21657	16	13'293	14'975	21731	8	13'456	16'916	21805	6	16'355	18'945	21879	24	2'527	21'009	21953	8	14'693	24'654
21658	7	13'924	14'858	21732	6	13'874	16'097	21806	5	17'345	18'266	21880	10	5'698	21'333	21954	7	14'867	24'468
21659*	28	13'998	14'814	21733	7	16'025	16'325	21807	15	19'710	18'415	21881*	26	7'075	21'135	21955*	25	15'657	24'617
21660	7	14'269	14'096	21734	8	16'437	16'725	21808	10	20'896	18'591	21882	6	11'978	21'036	21956	6	17'375	24'938
21661	5	14'827	14'124	21735	7	16'730	16'480	21809	21	22'715	18'636	21883	7	12'875	21'905	21957	13	17'565	24'022
21662	5	15'455	14'726	21736	16	16'734	16'711	21810	6	24'632	18'441	21884	7	13'200	21'755	21958	10	21'301	24'963
21663	6	15'605	14'884	21737	7	17'071	16'238	21811	5	24'956	18'569	21885	7	14'706	21'775	21959	9	21'846	24'345
21664	6	15'690	14'613	21738	6	17'165	16'683	21812	6	25'029	18'417	21886	17	16'073	21'006	21960	13	22'923	24'085
21665*	21	16'003	14'539	21739	9	17'204	16'694	21813	8	1'615	19'965	21887	8	16'854	21'345	21961	5	23'266	24'103
21666	6	16'735	14'413	21740	9	17'355	16'920	21814	16	1'908	19'873	21888	15	18'504	21'939	21962	10	24'154	24'018
21667	6	17'116	14'677	21741	10	18'333	16'146	21815	6	2'929	19'016	21889	5	19'265	21'945	21963	9	24'532	24'432
21668	11	19'397	14'668	21742	7	18'378	16'099	21816	5	3'945	19'709	21890	12	20'034	21'356	21964	13	2'118	25'452
21669	30	19'948	14'697	21743*	51	18'415	16'408	21817	6	5'614	19'576	21891	13	22'566	21'385	21965	8	2'630	25'224
21670	19	20'619	14'801	21744	5	18'973	16'500	21818	9	6'097	19'993	21892	14	23'175	21'340	21966	5	4'345	25'534
21671	5	21'375	14'795	21745	7	19'800	16'587	21819	8	7'487	19'005	21893	6	23'475	21'956	21967	5	4'724	25'895
21672	19	21'456	14'056	21746	7	20'086	16'445	21820	6	7'838	19'274	21894	7	23'630	21'475	21968	5	5'328	25'183
21673	17	23'039	14'450	21747	7	20'809	16'826	21821	13	8'093	19'402	21895	8	23'718	21'374	21969	5	5'773	25'064
21674	12	24'390	14'920	21748	7	21'540	16'308	21822	7	8'149	19'847	21896	6	24'235	21'767	21970	6	5'795	25'855
21675	10	25'156	14'315	21749	6	21'721	16'285	21823	10	9'395	19'895	21897	7	25'835	21'045	21971*	22	5'994	25'691
21676	6	25'418	14'497	21750	7	21'734	16'958	21824	6	10'294	19'132	21898	8	2'392	22'282	21972	5	6'156	25'584
21677	5	0'242	15'357	21751	11	23'134	16'917	21825	5	10'871	19'202	21899	5	2'951	22'255	21973	8	6'587	25'591
21678	6	0'274	15'531	21752*	21	24'787	16'926	21826	7	11'195	19'677	21900	15	4'422	22'437				

21986	7	18°118	25°675	22044	7	6°254	2°004	22118	5	25°874	4°619	22192	12	7°775	7°005	22266*	62	5°276	10°736
21987	12	18°773	25°495	22045	10	9°395	2°055	22119	6	1°509	5°875	22193	6	8°437	7°084	22267	6	6°274	10°764
21988	20	20°095	25°644	22046	11	10°836	2°215	22120	5	2°046	5°917	22194	5	8°947	7°063	22268	7	6°703	10°856
21989	11	22°600	25°910	22047	12	10°973	2°894	22121	8	3°213	5°854	22195	10	9°376	7°507	22269	24	6°752	10°436
21990	5	23°307	25°646	22048	8	11°893	2°022	22122	7	3°716	5°315	22196	6	10°236	7°027	22270	6	6°914	10°884
21991	10	23°872	25°115	22049	10	12°130	2°634	22123	11	3°992	5°980	22197	6	10°254	7°105	22271	6	8°781	10°162
21992	5	24°212	25°806	22050	9	12°178	2°723	22124	6	4°865	5°014	22198	15	15°547	7°823	22272	9	9°465	10°464
21993	20	24°685	25°285	22051	5	12°436	2°779	22125	5	6°619	5°216	22199	8	16°895	7°196	22273	11	10°088	10°455
R. A. 7^h 21^m Plate 1501; 1900 Jan. 17. <i>Provisional Constants.</i> A B C -00047 +00481 -7110 D E F -00518 -00036 -2234 <i>Mag. = 14.2 - 1.02√d</i>				22052	6	13°005	2°472	22126	6	6°863	5°223	22200	12	17°176	7°924	22274	8	10°254	10°138
				22053	8	13°135	2°065	22127	8	7°395	5°947	22201	12	17°692	7°073	22275	12	10°280	10°677
				22054	7	16°227	2°048	22128	7	7°405	5°466	22202	5	17°761	7°793	22276	8	11°697	10°785
				22055*	26	18°588	2°296	22129	9	7°420	5°393	22203	7	18°903	7°210	22277	7	12°249	10°106
				22056	6	19°125	2°967	22130	8	8°561	5°864	22204	6	19°284	7°666	22278	5	14°370	10°381
				22057	12	19°724	2°853	22131	9	8°852	5°474	22205	24	19°711	7°937	22279	16	14°905	10°422
				22058	6	20°089	2°446	22132	10	9°483	5°028	22206	11	20°657	7°796	22280	8	15°715	10°355
				22059	7	21°144	2°162	22133	12	10°272	5°966	22207	6	21°823	7°916	22281	12	15°786	10°373
				22060	20	21°759	2°617	22134	14	10°359	5°824	22208	10	23°441	7°515	22282	6	17°188	10°365
				22061	8	25°327	2°286	22135	5	10°926	5°399	22209	9	24°132	7°232	22283	12	18°346	10°189
				22062	6	0°194	3°071	22136	7	11°060	5°312	22210	11	24°423	7°396	22284	7	18°926	10°180
				22063	6	0°945	3°383	22137	6	12°426	5°316	22211	12	0°836	8°897	22285	6	19°275	10°891
				22064	8	2°410	3°052	22138	7	12°457	5°526	22212	5	0°872	8°026	22286	5	19°856	10°474
				22065	9	2°416	3°277	22139	6	14°067	5°180	22213	6	2°643	8°573	22287	8	20°168	10°165
				22066	16	4°596	3°302	22140	5	14°926	5°295	22214	5	2°647	8°835	22288	7	21°445	10°121
				22067	5	5°135	3°305	22141	6	16°471	5°135	22215	12	2°665	8°286	22289	11	22°460	10°856
				22068	11	5°189	3°154	22142	5	17°272	5°698	22216	9	3°027	8°899	22290	6	22°486	10°027
				22069	5	6°755	3°480	22143	6	18°075	5°059	22217	6	3°578	8°471	22291*	42	23°521	10°682
				22070	8	7°136	3°436	22144	10	18°374	5°575	22218	8	5°944	8°034	22292	6	25°150	10°606
				22071	6	7°484	3°572	22145	7	19°540	5°650	22219	14	6°263	8°727	22293	6	25°894	10°416
				22072	12	8°706	3°625	22146	10	22°117	5°846	22220	6	10°937	8°220	22294	7	1°565	11°878
				22073	13	8°994	3°508	22147	5	0°386	6°104	22221	6	12°416	8°694	22295	5	2°754	11°047
				22074	6	10°800	3°300	22148	6	0°798	6°311	22222	10	13°324	8°065	22296	12	3°573	11°244
				22075	14	11°734	3°086	22149	8	1°075	6°964	22223	6	14°351	8°506	22297	8	6°078	11°762
22001	6	0°433	0°984	22076	8	12°111	3°653	22150	6	2°354	6°555	22224	22	15°439	8°270	22298	10	7°275	11°315
22002	8	2°096	0°194	22077	6	13°303	3°903	22151	7	3°338	6°559	22225	8	15°955	8°907	22299	12	7°404	11°750
22003	5	3°425	0°976	22078	5	15°404	3°555	22152	10	4°188	6°605	22226	5	18°294	8°785	22300	10	7°633	11°358
22004	14	4°614	0°501	22079	7	16°298	3°582	22153	7	6°479	6°825	22227	6	18°670	8°051	22301	6	7°725	11°104
22005	16	5°405	0°030	22080	14	16°623	3°894	22154	15	7°794	6°055	22228	5	20°536	8°377	22302	11	8°785	11°295
22006	6	5°697	0°445	22081	8	16°885	3°536	22155	8	8°235	6°163	22229	7	20°733	8°919	22303	6	9°313	11°608
22007	5	6°373	0°247	22082	7	19°534	3°857	22156	5	8°516	6°834	22230	11	22°766	8°575	22304	5	9°696	11°276
22008	8	7°556	0°875	22083	6	20°395	3°505	22157	5	8°904	6°336	22231	5	24°244	8°698	22305	6	9°895	11°742
22009	6	9°956	0°764	22084	10	20°691	3°617	22158	5	10°235	6°592	22232	5	1°305	9°815	22306	18	10°235	11°017
22010	9	10°404	0°653	22085	7	22°634	3°578	22159	6	11°040	6°421	22233	7	1°324	9°059	22307	7	11°924	11°084
22011	6	11°523	0°926	22086	5	1°865	4°330	22160	9	11°087	6°311	22234	8	2°125	9°147	22308	6	12°602	11°346
22012	5	11°705	0°736	22087	6	3°874	4°915	22161	17	11°728	6°421	22235	7	2°388	9°742	22309	5	15°920	11°055
22013	11	11°964	0°964	22088	7	5°025	4°204	22162	16	12°255	6°536	22236	6	3°506	9°108	22310	5	16°907	11°483
22014	8	13°306	0°757	22089	5	7°153	4°444	22163*	44	12°539	6°693	22237	9	3°625	9°116	22311	8	19°655	11°725
22015	7	14°799	0°032	22090	6	7°661	4°925	22164*	43	13°978	6°659	22238	5	4°084	9°075	22312	6	20°194	11°746
22016*	24	16°046	0°966	22091	10	8°665	4°929	22165	10	14°754	6°387	22239	6	4°806	9°115	22313	16	20°615	11°647
22017	6	16°577	0°744	22092	5	9°537	4°024	22166	6	15°325	6°354	22240	5	7°323	9°076	22314	7	22°915	11°699
22018	5	17°583	0°059	22093*	25	10°786	4°830	22167	10	15°642	6°652	22241	6	10°107	9°249	22315	10	23°386	11°196
22019	10	18°730	0°105	22094	6	12°247	4°204	22168	7	16°155	6°993	22242	14	10°177	9°595	22316	5	23°524	11°835
22020	7	19°232	0°004	22095	8	14°176	4°944	22169	11	17°881	6°005	22243	10	10°551	9°174	22317	10	23°838	11°103
22021	20	19°634	0°718	22096	21	14°266	4°223	22170	8	18°381	6°570	22244	8	10°683	9°165	22318	6	23°900	11°175
22022	6	22°586	0°121	22097	8	14°991	4°924	22171	7	18°462	6°336	22245	20	10°984	9°736	22319	8	24°656	11°588
22023	7	0°226	1°165	22098	9	15°248	4°217	22172	6	19°087	6°434	22246	5	11°305	9°964	22320	9	25°425	11°870
22024	5	1°590	1°546	22099	7	16°116	4°975	22173	8	19°773	6°875	22247*	28	11°522	9°079	22321	5	0°545	12°935
22025*	30	2°184	1°044	22100	5	17°406	4°302	22174	9	20°445	6°439	22248	10	12°637	9°323	22322	16	1°219	12°687
22026	10	2°405	1°175	22101	16	19°591	4°333	22175	10	20°794	6°476	22249	18	13°860	9°611	22323	16	1°496	12°385
22027	6	2°428	1°162	22102	8	19°943	4°118	22176	5	21°997	6°810	22250	20	14°647	9°956	22324	7	1°929	12°025
22028	7	2°653	1°297	22103	18	20°305	4°031	22177	6	22°471	6°163	22251*	42	16°196	9°755	22325	6	2°147	12°353
22029	5	4°534	1°498	22104	19	21°082	4°970	22178	7	22°664	6°236	22252	7	16°578	9°924	22326	5	2°516	12°057
22030	5	6°856	1°176	22105	11	21°761	4°193	22179	14	22°978	6°614	22253	6	18°287	9°111	22327*	36	3°655	12°635
22031	7	9°473	1°915	22106	5	22°336	4°465	22180	9	23°210	6°508	22254	5	18°903	9°172	22328	6	3°885	12°245
22032	6	9°946	1°474	22107	5	22°614	4°773	22181	7	23°225	6°234	22255	7	19°196	9°091	22329	7	5°913	12°

22340	8	14°024	12°686	22414	7	9°624	15°618	22488	10	20°663	17°832	22562	6	7°664	20°517	22636	5	19°276	22°582
22341	7	14°256	12°484	22415	7	11°745	15°983	22489	5	23°116	17°867	22563	9	8°049	20°560	22637	5	20°144	22°464
22342	6	15°944	12°788	22416	6	11°914	15°766	22490	7	24°111	17°235	22564	5	9°183	20°391	22638	7	20°715	22°242
22343	18	16°627	12°959	22417*	30	11°952	15°463	22491	6	0°487	18°524	22565	12	9°628	20°261	22639	5	20°844	22°414
22344	9	16°678	12°065	22418	5	13°362	15°446	22492	5	0°811	18°645	22566*	14	9°914	20°202	22640	6	22°285	22°582
22345	7	17°137	12°407	22419	12	15°371	15°022	22493	7	0°884	18°492	22567*	15	10°254	20°714	22641	5	23°579	22°504
22346	5	17°323	12°715	22420	11	15°695	15°371	22494	8	2°578	18°166	22568*	12	10°363	20°458	22642	8	24°356	22°265
22347	6	18°135	12°426	22421	16	15°964	15°797	22495	6	2°887	18°363	22569*	26	13°146	20°456	22643*	28	2°235	23°622
22348	8	18°308	12°355	22422	17	16°199	15°420	22496	6	4°590	18°605	22570	6	15°295	20°159	22644	5	3°508	23°290
22349	5	18°683	12°105	22423	14	16°416	15°164	22497	12	4°696	18°919	22571	6	15°480	20°236	22645	5	4°499	23°644
22350*	13	19°196	12°296	22424	7	17°638	15°163	22498	16	5°269	18°331	22572	5	15°486	20°262	22646	13	6°495	23°352
22351*	15	19°981	12°299	22425	7	18°548	15°874	22499	7	5°325	18°814	22573	5	15°804	20°779	22647	5	7°085	23°191
22352	8	20°338	12°050	22426	7	18°654	15°865	22500	27	9°032	18°756	22574	6	17°067	20°327	22648	7	7°125	23°935
22353	5	20°634	12°660	22427*	23	22°750	15°222	22501	14	9°354	18°709	22575	12	17°483	20°349	22649	10	7°392	23°626
22354	6	22°077	12°892	22428	6	22°925	15°117	22502	5	9°413	18°468	22576	6	18°559	20°083	22650	9	8°336	23°024
22355	6	3°428	13°346	22429	8	22°964	15°476	22503	6	10°057	18°589	22577	12	19°016	20°982	22651	5	8°815	23°537
22356	10	3°482	13°198	22430	6	23°223	15°505	22504	6	10°478	18°754	22578	22	19°997	20°005	22652	10	9°084	23°181
22357	8	3°525	13°892	22431	10	24°085	15°540	22505	6	10°597	18°096	22579	6	20°816	20°874	22653	7	10°421	23°221
22358*	27	4°495	13°062	22432	12	24°309	15°685	22506	5	11°244	18°716	22580	5	21°336	20°537	22654	6	10°425	23°097
22359	6	5°342	13°795	22433	10	24°943	15°804	22507*	24	11°875	18°422	22581	8	22°084	20°021	22655	11	13°729	23°585
22360	15	5°485	13°583	22434	5	25°114	15°814	22508	6	13°878	18°651	22582	6	22°406	20°303	22656	5	14°608	23°932
22361*	28	5°844	13°691	22435	5	25°216	15°250	22509	16	13°907	18°875	22583	6	24°345	20°044	22657	5	16°744	23°677
22362	8	6°738	13°895	22436	6	2°334	16°368	22510	6	14°325	18°994	22584	5	0°149	21°852	22658	10	24°086	23°573
22363	5	6°771	13°504	22437	7	3°166	16°333	22511	11	14°423	18°735	22585	8	1°737	21°100	22659	9	0°106	24°106
22364	18	8°984	13°680	22438	13	3°421	16°558	22512	5	15°465	18°506	22586	6	1°818	21°181	22660	8	0°492	24°514
22365	11	9°197	13°022	22439	6	3°614	16°716	22513	7	15°516	18°783	22587	7	2°483	21°495	22661	7	2°784	24°618
22366	10	10°489	13°033	22440	10	3°934	16°484	22514	8	16°994	18°825	22588	11	3°005	21°012	22662	11	2°865	24°217
22367	5	10°825	13°684	22441	6	10°195	16°764	22515	29	17°882	18°904	22589*	28	3°506	21°563	22663	13	7°820	24°766
22368	6	11°032	13°685	22442	5	10°237	16°695	22516	6	18°356	18°766	22590	8	4°936	21°880	22664	7	8°135	24°875
22369	7	11°305	13°958	22443	6	10°364	16°707	22517	8	19°073	18°246	22591	9	5°103	21°238	22665	7	10°384	24°831
22370	6	11°376	13°012	22444	5	10°700	16°505	22518	10	19°450	18°125	22592	5	5°334	21°977	22666	8	10°723	24°462
22371	5	12°625	13°657	22445	6	11°130	16°998	22519	9	19°478	18°225	22593	6	5°703	21°998	22667	10	11°270	24°690
22372	9	12°713	13°943	22446	7	11°515	16°317	22520	7	24°449	18°427	22594	5	5°745	21°721	22668	6	13°996	24°282
22373	5	13°110	13°339	22447	6	11°839	16°716	22521	5	25°642	18°522	22595	7	6°340	21°940	22669	14	14°384	24°271
22374	6	13°438	13°944	22448	5	11°841	16°324	22522	6	0°556	19°943	22596	6	6°541	21°285	22670	5	16°946	24°393
22375	6	20°296	13°775	22449	6	13°262	16°098	22523	7	0°585	19°597	22597	9	6°815	21°269	22671	7	18°746	24°754
22376*	25	20°518	13°834	22450	7	13°836	16°310	22524	6	1°806	19°454	22598	6	7°318	21°504	22672	6	21°174	24°450
22377	11	20°848	13°077	22451	6	14°698	16°970	22525	10	4°142	19°068	22599	14	8°015	21°941	22673*	34	22°358	24°564
22378	6	22°108	13°345	22452	6	15°028	16°619	22526	20	6°540	19°795	22600	10	9°805	21°034	22674	6	0°196	25°896
22379	13	23°339	13°906	22453	8	17°939	16°115	22527	11	6°826	19°523	22601	6	12°555	21°359	22675	18	0°663	25°362
22380	6	23°596	13°571	22454*	75	17°945	16°582	22528	6	7°204	19°702	22602	11	13°305	21°221	22676	9	3°046	25°057
22381	7	24°587	13°338	22455	6	18°965	16°244	22529	18	7°845	19°545	22603	6	13°313	21°814	22677	12	3°505	25°166
22382	11	0°935	14°386	22456	12	19°186	16°711	22530	12	8°873	19°466	22604	5	16°324	21°125	22678	7	5°667	25°203
22383	6	1°202	14°565	22457	16	19°249	16°858	22531	10	9°350	19°619	22605	19	18°953	21°155	22679	5	5°773	25°612
22384	6	1°994	14°049	22458	7	19°291	16°400	22532	11	9°625	19°165	22606	10	20°416	21°447	22680	10	6°396	25°043
22385	5	2°410	14°854	22459	5	20°304	16°705	22533	6	9°886	19°822	22607	5	22°598	21°676	22681	18	7°077	25°386
22386	7	2°975	14°679	22460	26	21°938	16°737	22534	7	10°463	19°680	22608	9	24°744	21°494	22682	7	7°379	25°524
22387	6	4°019	14°071	22461	8	22°865	16°866	22535	6	10°491	19°106	22609	6	24°762	21°186	22683	6	7°786	25°093
22388	21	4°844	14°978	22462	11	23°472	16°209	22536	5	11°639	19°582	22610	6	25°616	21°802	22684	5	9°208	25°655
22389	12	6°380	14°391	22463	6	25°495	16°654	22537	13	11°871	19°516	22611	7	3°757	22°344	22685	7	9°835	25°855
22390	6	6°413	14°694	22464*	20	0°615	17°005	22538	6	12°127	19°396	22612	6	4°419	22°073	22686	12	11°005	25°084
22391	20	7°674	14°570	22465	7	1°109	17°106	22539	5	12°263	19°184	22613	6	5°481	22°518	22687	6	12°467	25°737
22392	5	8°645	14°162	22466	12	2°797	17°236	22540	6	12°933	19°433	22614	5	5°777	22°215	22688	5	12°901	25°028
22393	9	9°719	14°619	22467	5	2°806	17°926	22541	6	13°884	19°219	22615	8	7°118	22°217	22689	10	13°266	25°526
22394	6	10°099	14°768	22468	9	3°977	17°911	22542	7	16°041	19°489	22616	10	8°157	22°953	22690	8	15°797	25°180
22395	5	10°147	14°715	22469	7	5°096	17°743	22543	13	16°095	19°120	22617	23	8°226	22°745	22691	6	16°125	25°505
22396	7	10°954	14°374	22470	5	6°129	17°909	22544	8	19°496	19°766	22618	6	8°715	22°245	22692	5	19°455	25°966
22397	6	14°068	14°787	22471	6	6°255	17°548	22545	7	19°555	19°367	22619	5	9°237	22°597	22693	5	21°216	25°386
22398	7	16°499	14°732	22472	7	6°258	17°078	22546	5	20°256	19°326	22620	6	9°748	22°195	22694	5	23°131	25°180
22399	5	16°727	14°635	22473	6	6°720	17°676	22547	6	22°265	19°513	22621	5	10°686	22°926	22695*	26	24°020	25°265
22400	11	18°486	14°200	22474	8	6°739	17°683	22548	12	24°662	19°654	22622	7	10°848	22°277				
22401	12	18°903	14°274	22475	6	7°359	17°101	22549	11	25°750	19°404	22623	17	10°906	22°274				
22402*	63	19°217	14°156	22476	7	8°715	17°575	22550	15	0°339	20°145	22624	7	11°278	22°514				
22403*	46	21°465	14°101	22															

23053	9	23°023	17°642	23127	8	17°502	21°595	23257	13	23°987	4°126	23331	11	25°854	9°937
23054	5	23°516	17°533	23128	9	19°757	21°534	23258*	8	7°705	5°665	23332	5	25°987	9°605
23055	5	23°811	17°174	23129	5	20°185	21°606	23259	9	7°954	5°729	23333	8	0°713	10°444
23056	8	24°576	17°508	23130*	11	20°809	21°742	23260*	19	10°566	5°333	23334*	18	2°775	10°245
23057	9	24°577	17°694	23131	4	23°944	21°875	23261*	14	10°940	5°921	23335	7	6°359	10°464
23058	6	25°892	17°805	23132	6	1°677	22°472	23262*	13	11°535	5°966	23336	5	10°158	10°568
23059	4	0°044	18°913	23133	10	5°520	22°326	23263	4	12°932	5°325	23337	8	12°744	10°600
23060	4	4°315	18°870	23134	9	6°442	22°778	23264	11	16°782	5°104	23338	4	14°952	10°168
23061	7	4°839	18°356	23135	4	6°737	22°466	23265	13	17°795	5°749	23339	9	15°816	10°724
23062	9	4°982	18°277	23136	7	7°868	22°799	23266	10	18°306	5°191	23340	6	18°795	10°290
23063	12	5°094	18°412	23137	5	10°307	22°205	23267*	11	5°277	6°282	23341*	14	23°063	10°819
23064	13	5°680	18°343	23138*	39	11°160	22°931	23268	9	6°163	6°775	23342	4	24°106	10°375
23065	6	5°848	18°116	23139	8	11°822	22°793	23269	9	6°396	6°093	23343	5	24°390	10°073
23066	8	6°064	18°609	23140*	20	13°083	22°970	23270	7	7°334	6°898	23344*	14	25°075	10°548
23067	5	6°205	18°427	23141	4	13°102	22°252	23271	10	10°141	6°500	23345	7	1°386	11°870
23068	4	6°313	18°946	23142	5	16°821	22°793	23272	8	11°010	6°263	23346*	15	2°160	11°440
23069	5	6°746	18°572	23143	8	16°875	22°814	23273	11	11°346	6°351	23347	5	3°035	11°229
23070	13	6°957	18°073	23144	10	20°400	22°830	23274	16	14°187	6°454	23348	10	5°966	11°622
23071	12	7°715	18°434	23145	8	22°148	22°234	23275	10	15°801	6°549	23349	6	7°024	11°102
23072	6	8°943	18°973	23146	4	23°034	22°262	23276	7	16°070	6°568	23350	4	7°752	11°261
23073	6	9°213	18°931	23147	4	25°153	22°350	23277	13	17°714	6°640	23351	12	8°509	11°125
23074*	32	9°911	18°575	23148*	10	25°379	22°915	23278	4	17°868	6°841	23352	10	9°046	11°790
23075	6	10°258	18°970	23149	9	25°740	22°779	23279	6	19°523	6°621	23353	12	9°161	11°095
23076	4	13°037	18°898	23150	7	1°446	23°783	23280	4	21°708	6°400	23354	12	13°299	11°292
23077	4	14°882	18°344	23151*	15	4°588	23°334	23281	9	23°785	6°960	23355	9	13°539	11°761
23078	6	15°795	18°851	23152	7	6°482	23°459	23282	4	24°749	6°034	23356	13	15°565	11°319
23079	12	15°903	18°209	23153	4	7°740	23°156	23283	5	25°174	6°889	23357	9	15°569	11°054
23080	5	19°036	18°845	23154*	16	8°015	23°496	23284	4	25°247	6°983	23358	4	16°495	11°930
23081	13	20°109	18°300	23155*	38	8°859	23°640	23285	12	0°662	7°950	23359	4	16°708	11°309
23082	5	20°617	18°327	23156	8	11°958	23°452	23286	8	1°481	7°867	23360	9	18°327	11°689
23083	11	23°653	18°668	23157	12	12°461	23°835	23287	8	4°326	7°079	23361	11	22°657	11°533
23084	4	24°127	18°112	23158	4	12°565	23°090	23288	7	5°806	7°725	23362	10	24°116	11°796
23085	9	3°013	19°583	23159	13	13°935	23°696	23289	4	7°055	7°613	23363	10	25°005	11°111
23086	7	4°048	19°037	23160	6	17°414	23°768	23290	5	10°481	7°074	23364	5	25°275	11°940
23087	11	6°346	19°626	23161	5	17°697	23°423	23291	11	13°036	7°706	23365	4	0°387	12°710
23088	6	10°097	19°145	23162	6	20°786	23°394	23292	12	13°288	7°369	23366	7	0°599	12°836
23089	5	12°736	19°638	23163	10	21°700	23°700	23293	10	16°153	7°034	23367	7	0°626	12°457
23090	7	13°568	19°674	23164	4	23°597	23°823	23294	12	17°141	7°387	23368*	19	0°885	12°365
23091	5	13°575	19°873	23165	7	23°668	23°104	23295	4	19°587	7°977	23369	4	2°047	12°703
23092	13	15°463	19°264	23166	4	23°736	23°923	23296	6	20°566	7°919	23370	6	5°670	12°895
23093	10	17°701	19°485	23167	9	24°483	23°531	23297	5	20°927	7°208	23371	6	8°045	12°710
23094*	18	19°226	19°247	23168	6	25°509	23°927	23298	8	21°079	7°990	23372	5	9°568	12°612
23095*	13	19°435	19°154	23169	10	3°716	24°420	23299	7	21°700	7°474	23373	10	10°364	12°825
23096	4	20°352	19°544	23170	6	3°931	24°419	23300	12	23°250	7°149	23374	4	11°791	12°496
23097	8	23°233	19°900	23171	7	4°689	24°531	23301	6	0°114	8°491	23375	4	12°609	12°807
23098	7	25°669	19°259	23172	13	6°127	24°960	23302	8	0°647	8°325	23376	6	14°276	12°163
23099	4	25°968	19°466	23173	5	6°156	24°295	23303	7	5°501	8°229	23377	4	18°605	12°825
23100	4	8°039	20°254	23174	6	8°087	24°702	23304	7	5°568	8°102	23378	5	19°658	12°449
23101	7	8°169	20°456	23175*	21	8°974	24°195	23305*	17	5°901	8°298	23379	4	2°604	13°504
23102*	37	8°712	20°330	23176	12	11°140	24°584	23306	13	6°234	8°765	23380	6	7°503	13°174
23103	4	9°247	20°732	23177	8	12°936	24°639	23307	5	6°902	8°275	23381	5	7°784	13°142
23104	4	9°410	20°865	23178	10	14°309	24°225	23308	11	7°545	8°421	23382	10	8°248	13°176
23105	7	10°897	20°289	23179	5	15°632	24°581	23309	10	8°377	8°576	23383	11	10°845	13°724
23106	7	11°079	20°544	23180	4	17°568	24°370	23310	12	9°835	8°902	23384	5	11°494	13°008
23107	7	11°260	20°521	23181	4	17°861	24°541	23311	6	11°283	8°481	23385	9	12°885	13°969
23108	10	13°138	20°019	23182	6	19°073	24°631	23312	11	16°268	8°160	23386	5	12°951	13°397
23109	6	13°403	20°081	23183*	15	21°282	24°792	23313	12	17°379	8°317	23387	16	12°994	13°393
23110	8	14°417	20°462	23184	11	22°911	24°603	23314	16	18°305	8°944	23388	10	13°275	13°706
23111	11	14°893	20°097	23185	10	23°261	24°926	23315	8	20°460	8°525	23389	5	13°745	13°205
23112	5	15°528	20°560	23186*	15	1°406	25°480	23316	4	20°893	8°544	23390	7	14°289	13°861
23113	4	22°373	20°791	23187	8	4°182	25°929	23317	4	21°415	8°295	23391	4	14°958	13°443
23114	7	23°339	20°272	23188	10	8°575	25°228	23318	5	22°690	8°298	23392	5	15°097	

23405	7	9°572	14°880	23479	7	18°538	18°671	23553	11	22°859	22°630	23615	6	12°644	1°674	23689	10	22°255	5°795
23406	7	9°881	14°458	23480	4	19°549	18°962	23554	11	23°338	22°600	23616	6	14°128	1°485	23690	6	24°945	5°185
23407	5	11°876	14°976	23481	8	21°212	18°678	23555*	33	23°341	22°575	23617	9	14°600	1°860	23691	4	8°482	6°773
23408	6	13°582	14°793	23482	10	21°718	18°196	23556*	8	1°715	23°064	23618	5	14°891	1°400	23692	8	9°931	6°887
23409	6	14°198	14°585	23483	10	22°519	18°112	23557	4	11°594	23°238	23619	4	15°174	1°673	23693	6	12°043	6°582
23410	4	14°695	14°744	23484	5	22°999	18°354	23558	10	11°896	23°535	23620	8	16°249	1°178	23694	6	15°145	6°734
23411	6	14°894	14°883	23485*	44	25°867	18°100	23559	12	11°967	23°160	23621	4	16°508	1°187	23695	12	16°429	6°890
23412	5	15°137	14°881	23486	6	1°938	19°405	23560	8	12°158	23°729	23622	7	21°846	1°819	23696	6	17°282	6°243
23413	10	15°226	14°130	23487*	10	6°166	19°140	23561	4	15°349	23°871	23623	9	22°480	1°632	23697	13	18°154	6°749
23414	12	15°790	14°230	23488*	19	8°464	19°656	23562	5	19°006	23°043	23624	4	24°141	1°043	23698	4	21°478	6°410
23415	10	18°604	14°953	23489	4	10°266	19°096	23563*	33	20°602	23°665	23625	8	24°337	1°359	23699	6	21°588	6°062
23416	4	21°045	14°746	23490	4	10°385	19°849	23564	10	20°961	23°983	23626	7	24°529	1°041	23700	7	21°747	6°774
23417	9	22°149	14°067	23491	4	11°678	19°623	23565	4	25°079	23°290	23627	8	11°249	2°405	23701	5	21°859	6°633
23418	5	22°714	14°009	23492	9	12°497	19°510	23566	11	3°414	24°754	23628	9	13°384	2°246	23702	4	24°638	6°165
23419	5	23°559	14°889	23493	4	14°032	19°117	23567*	19	7°817	24°915	23629	11	14°255	2°561	23703	4	3°591	7°654
23420	4	24°915	14°075	23494	6	14°396	19°641	23568	11	10°229	24°371	23630	8	15°071	2°355	23704	8	5°046	7°249
23421	13	2°718	15°264	23495	11	14°415	19°961	23569	8	12°186	24°682	23631	7	16°370	2°171	23705*	16	9°280	7°542
23422	7	5°516	15°325	23496	4	15°889	19°053	23570*	18	13°953	24°650	23632	8	17°029	2°786	23706	5	9°305	7°701
23423	4	6°362	15°389	23497	4	16°862	19°210	23571*	17	14°776	24°622	23633	10	17°921	2°234	23707	8	10°410	7°251
23424	10	7°357	15°940	23498	7	20°057	19°101	23572	4	18°882	24°685	23634	4	22°398	2°293	23708	4	11°165	7°406
23425	7	8°289	15°329	23499	12	20°075	19°250	23573*	38	21°915	24°839	23635	6	23°874	2°972	23709	4	12°009	7°028
23426	4	9°321	15°943	23500	4	20°832	19°795	23574*	12	0°614	25°538	23636	7	0°185	3°382	23710	8	13°574	7°726
23427	7	10°229	15°024	23501	11	22°949	19°610	23575*	15	1°294	25°579	23637	8	4°053	3°641	23711	4	16°648	7°257
23428	9	11°320	15°061	23502	7	22°987	19°818	23576*	20	1°436	25°617	23638	11	6°888	3°580	23712	8	17°514	7°145
23429	4	11°663	15°812	23503	5	23°536	19°971	23577	5	6°375	25°306	23639	8	7°441	3°907	23713	7	17°705	7°604
23430*	120	13°820	15°956	23504*	21	25°422	19°910	23578*	21	6°646	25°628	23640	5	8°359	3°006	23714	11	18°439	7°249
23431	8	14°561	15°945	23505*	16	2°223	20°296	23579	12	10°957	25°660	23641	9	8°570	3°571	23715	6	18°528	7°350
23432	4	22°647	15°223	23506*	10	2°225	20°735	23580	10	11°444	25°567	23642	7	11°796	3°682	23716	5	20°206	7°544
23433	12	25°165	15°844	23507	14	3°500	20°561	23581	13	15°974	25°531	23643	4	13°118	3°628	23717	4	22°318	7°869
23434	4	25°955	15°369	23508	5	3°731	20°550	23582	15	16°510	25°185	23644	7	13°232	3°404	23718	5	23°674	7°870
23435	11	3°146	16°699	23509	13	4°385	20°740	23583	6	18°167	25°753	23645	5	14°981	3°147	23719*	37	1°959	8°257
23436	7	5°304	16°066	23510	13	5°543	20°043	23584	7	18°176	25°261	23646	5	16°724	3°390	23720	8	5°290	8°896
23437	6	6°477	16°826	23511	5	7°095	20°135	23585	12	19°728	25°130	23647	5	17°170	3°546	23721	4	5°714	8°742
23438	8	6°597	16°580	23512	13	8°376	20°932	23586	6	20°477	25°425	23648	8	17°499	3°215	23722	4	6°105	8°106
23439	7	6°664	16°294	23513	4	8°843	20°736	23587	13	21°906	25°136	23649	12	19°191	3°579	23723	9	6°168	8°730
23440	5	7°339	16°509	23514	4	10°107	20°152	23588*	12	23°242	25°237	23650	5	19°577	3°258	23724	7	6°889	8°245
23441	13	7°609	16°676	23515	5	11°410	20°925	23589	11	24°089	25°848	23651	4	19°586	3°369	23725	4	7°286	8°927
23442	4	10°545	16°749	23516	7	14°214	20°349					23652	13	19°915	3°729	23726	5	11°308	8°382
23443	4	10°564	16°674	23517	7	17°849	20°415					23653	4	21°136	3°850	23727	4	16°077	8°672
23444	4	12°696	16°797	23518	5	20°989	20°264					23654	5	8°045	4°564	23728*	10	20°727	8°643
23445	4	12°884	16°780	23519	15	24°326	20°024					23655	6	8°134	4°959	23729	5	20°985	8°434
23446	5	13°530	16°432	23520	8	24°451	20°710					23656	9	8°757	4°091	23730	7	21°526	8°195
23447	10	14°429	16°141	23521	8	3°173	21°246					23657	5	9°066	4°353	23731	13	24°111	8°396
23448	14	14°620	16°140	23522	8	3°938	21°169					23658	4	10°499	4°868	23732	4	25°058	8°067
23449	8	16°368	16°260	23523	4	4°581	21°818					23659	6	11°146	4°856	23733	11	25°184	8°017
23450	12	18°544	16°046	23524	5	6°054	21°992					23660	4	13°929	4°665	23734	12	25°606	8°190
23451	7	19°733	16°115	23525	4	6°414	21°953					23661*	21	15°892	4°833	23735*	14	1°845	9°234
23452	6	21°610	16°255	23526	13	7°005	21°986					23662	6	16°138	4°759	23736	4	2°072	9°788
23453	4	21°997	16°338	23527	12	8°002	21°089					23663*	12	17°330	4°024	23737	5	2°203	9°720
23454	5	24°525	16°283	23528	5	9°107	21°286					23664	6	17°681	4°421	23738	8	3°429	9°690
23455	7	0°816	17°860	23529	4	10°463	21°081					23665	5	18°810	4°075	23739	6	3°553	9°225
23456	5	2°135	17°945	23530	5	14°850	21°623					23666	9	18°840	4°272	23740	9	5°501	9°664
23457	4	6°904	17°814	23531*	12	19°249	21°842					23667	12	19°047	4°359	23741	12	6°970	9°858
23458	8	8°851	17°290	23532	12	22°824	21°893					23668	5	19°352	4°848	23742	4	9°159	9°347
23459	7	9°520	17°803	23533*	21	23°309	21°339					23669	4	20°096	4°765	23743	8	11°985	9°150
23460	5	12°143	17°708	23534	5	23°827	21°762					23670	8	21°964	4°271	23744	10	16°391	9°334
23461	6	13°579	17°339	23535*	29	24°008	21°458					23671	4	22°179	4°368	23745	11	19°174	9°191
23462	4	16°237	17°071	23536	13	25°624	21°614					23672	8	25°195	4°552	23746	5	19°360	9°846
23463	4	17°081	17°533	23537	7	2°075	22°924					23673	7	2°792	5°630	23747*	21	22°654	9°790
23464	5	19°124	17°114	23538	11	2°810	22°308					23674	5	2°910	5°339	23748	8	22°925	9°482
23465	7	21°492	17°105	23539	5	4°261	22°878					23675	4	3°524	5°173	23749	4	24°499	9°801
23466	6	23°929	17°417	23540	12	8°602	22°689					23676	6	5°823	5°354	23750*	11	1°176	10°746
23467	4	24°038	17°589	23541	9	8°695	22°861					23677	7	5°965	5°990	23751	9	1°941	10°120
23468	5	25°514	17°933	23542	12	9°914	22°725					23678	5	7°502	5°201	23752	7	5°137	10°509
23469	13	2°520	18°314	23543	10	9°986	22°774					23679	4	8°538	5°015	23753	5	6°506	10°410
23470	12	5°877	18°272	23544	13	12°810	22°150					23680	12	8°787	5°728	23754	5	6°775	10°399
23471	16	6°330	18°134	23545*	20	14°374	22°146					23681	7	9°163	5°421	2375			

23763	6	23°890	10°469	23837	9	17°154	15°792	23911	8	24°944	21°171	24057	5	25°623	3°266
23764	10	24°124	10°758	23838	5	18°481	15°474	23912	4	25°160	21°489	24058	10	25°725	3°077
23765	4	25°236	10°672	23839	4	21°366	15°143	23913	7	3°567	22°990	24059	7	1°283	4°748
23766	6	25°405	10°335	23840	5	0°738	16°491	23914	11	5°543	22°804	24060	8	2°782	4°104
23767	4	1°110	11°455	23841	10	1°365	16°039	23915	4	6°779	22°895	24061	10	2°825	4°572
23768	10	1°114	11°310	23842	4	4°736	16°532	23916*	15	16°875	22°129	24062	8	4°413	4°328
23769	4	1°134	11°259	23843	7	8°709	16°666	23917	11	18°576	22°444	24063	16	5°096	4°001
23770	4	2°585	11°342	23844*	40	11°100	16°490	23918	7	21°337	22°727	24064	9	5°840	4°260
23771	4	10°454	11°629	23845	9	13°518	16°670	23919	10	22°234	22°071	24065	7	6°190	4°461
23772	6	11°810	11°956	23846	5	15°628	16°486	23920	5	23°895	22°296	24066	5	8°326	4°368
23773	7	12°363	11°375	23847*	13	18°884	16°589	23921	4	25°506	22°688	24067	9	11°918	4°071
23774	11	12°382	11°912	23848	4	19°790	16°620	23922	6	3°946	23°215	24068	5	18°626	4°804
23775	12	12°511	11°261	23849	7	21°783	16°857	23923	4	4°497	23°381	24069*	13	18°792	4°705
23776	6	12°864	11°316	23850	12	22°795	16°766	23924	9	5°358	23°489	24070	8	21°324	4°017
23777	5	12°876	11°035	23851	7	23°450	16°609	23925	12	7°332	23°090	24071*	13	23°231	4°350
23778	7	15°831	11°977	23852	4	24°087	16°518	23926	4	9°831	23°415	24072	10	23°862	4°928
23779	10	17°944	11°375	23853	6	25°260	16°105	23927	9	10°296	23°543	24073	5	25°479	4°901
23780	4	22°266	11°104	23854	4	0°165	17°633	23928	4	11°738	23°907	24074*	30	25°618	4°391
23781	8	0°240	12°012	23855	11	3°249	17°794	23929	9	13°167	23°122	24075	6	25°739	4°460
23782	5	1°406	12°138	23856	5	5°532	17°189	23930	5	13°603	23°800	24076	5	1°044	5°385
23783	4	2°419	12°249	23857	4	8°347	17°003	23931	10	14°166	23°635	24077*	13	2°651	5°951
23784	8	2°761	12°130	23858	4	10°080	17°848	23932	7	18°469	23°167	24078*	14	3°053	5°334
23785	5	3°480	12°501	23859	4	10°710	17°561	23933	6	18°638	23°226	24079	10	5°696	5°928
23786	11	3°778	12°607	23860	8	10°791	17°474	23934	5	18°729	23°924	24080	13	11°980	5°283
23787	7	5°082	12°386	23861	11	20°444	17°467	23935	6	20°299	23°741	24081	9	12°659	5°933
23788	4	6°767	12°714	23862	6	21°293	17°125	23936	7	22°506	23°379	24082	5	12°893	5°269
23789	5	7°809	12°457	23863	5	21°975	17°454	23937	4	22°975	23°776	24083	6	13°209	5°008
23790	10	8°556	12°596	23864	7	23°354	17°873	23938	5	23°424	23°539	24084	4	18°211	5°881
23791	6	8°567	12°525	23865	4	25°360	17°250	23939	6	25°013	23°771	24085	5	19°342	5°429
23792*	13	8°575	12°864	23866	5	1°755	18°123	23940*	22	3°068	24°673	24086	5	20°349	5°371
23793	5	9°859	12°150	23867*	40	2°111	18°281	23941	9	7°295	24°249	24087	10	20°904	5°776
23794*	17	9°976	12°825	23868	5	9°459	18°347	23942	8	7°405	24°310	24088	11	24°019	5°008
23795	6	11°014	12°810	23869	9	11°640	18°384	23943	4	7°910	24°694	24089	4	2°732	6°922
23796	4	11°533	12°344	23870	8	12°049	18°551	23944	6	7°986	24°533	24090	8	7°902	6°234
23797	4	11°778	12°501	23871	4	14°162	18°470	23945	12	8°312	24°228	24091	4	7°913	6°969
23798	5	12°859	12°562	23872	6	14°784	18°432	23946	4	10°799	24°383	24092	5	8°187	6°739
23799*	28	18°100	12°203	23873	5	15°085	18°200	23947*	13	10°812	24°572	24093	11	13°233	6°160
23800	4	20°334	12°644	23874*	19	23°587	18°141	23948*	14	13°711	24°947	24094	10	14°058	6°481
23801	10	20°348	12°685	23875	7	25°396	18°069	23949	7	15°064	24°175	24095	4	18°752	6°853
23802	13	23°913	12°892	23876	4	0°421	19°630	23950	6	19°333	24°272	24096	9	19°700	6°500
23803	5	25°513	12°226	23877	10	3°540	19°946	23951	7	20°221	24°669	24097	8	20°114	6°447
23804	7	25°594	12°370	23878	6	17°342	19°202	23952	5	20°551	24°650	24098*	14	20°905	6°072
23805*	10	2°783	13°593	23879	10	19°718	19°561	23953	5	20°680	24°074	24099	10	21°130	6°691
23806	6	4°354	13°065	23880	8	19°856	19°276	23954	7	4°143	25°847	24100	9	5°737	7°428
23807*	15	5°451	13°851	23881	4	20°485	19°779	23955	4	8°112	25°862	24101	4	7°958	7°970
23808	11	6°491	13°769	23882	5	21°972	19°507	23956*	11	8°884	25°054	24102	8	8°284	7°826
23809	4	6°793	13°154	23883	13	0°604	20°235	23957	7	12°036	25°769	24103	7	10°411	7°069
23810	7	7°167	13°861	23884	7	0°742	20°919	23958	12	14°490	25°277	24104	10	12°520	7°797
23811	12	7°706	13°473	23885*	16	1°698	20°100	23959	5	16°181	25°424	24105	12	12°665	7°992
23812	8	9°078	13°792	23886	11	9°216	20°355	23960*	9	17°654	25°079	24106	9	16°506	7°411
23813	4	12°192	13°121	23887	6	9°925	20°439	23961	7	18°430	25°106	24107	4	20°412	7°788
23814	9	14°291	13°130	23888	9	10°417	20°600	23962*	9	19°769	25°688	24108	5	21°137	7°973
23815	8	15°443	13°866	23889	5	10°718	20°026	23963	6	22°315	25°447	24109	5	22°245	7°519
23816	4	1°076	14°277	23890	4	12°402	20°503	23964	5	24°257	25°270	24110	4	22°393	7°868
23817	7	4°037	14°824	23891	4	12°636	20°760					24111	5	23°176	7°830
23818	11	4°797	14°295	23892	5	12°981	20°859					24112	6	23°195	7°556
23819	7	6°409	14°817	23893	6	13°502	20°028					24113	14	0°260	8°609
23820	4	6°645	14°230	23894	7	14°631	20°785					24114	5	1°199	8°264
23821	6	6°837	14°513	23895	5	15°095	20°123					24115	12	1°324	8°212
23822	5	7°629	14°215	23896*	33	15°832	20°499					24116	13	1°752	8°378
23823	4	8°134	14°546	23897	4	18°914	20°967					24117	6	2°446	8°855
23824	6	9°923	14°909	23898	10	22°201	20°022					24118	7	2°727	8°781
23825*	25	10°898	14°851	23899	9	22°710	20°893					24119	11	2°818	8°600
23826	4	12°621	14°308	23900	4	0°139	21°981					24120	5	5°135	8°317
23827	7	13°173	14°735	23901	21	0°311	21°674					24121	6	10°212	8°976
23828*	15	13°452	14°494	23902	12	1°932	21°800					24122	10	11°161	8°757
23829	5	15°375	14°235	23903	9	3°854	21°269					24123	9	11°195	8°876
23830	4	2°147	15°547	23904	10	5°824	21°905					24124	6	11°664	8°027
23831	4	3°196	15°650	23905	8	10°497	21°362					24125	4	11°858	8°188
23832	6	7°765	15°865	23906	4	11°629	21°437					24126	5	14°260	8°285
23833	6	9°977	15°228	23907	10	17°511	21°250					24127	4	14°647	8°124
23834	7	10°192	15°441	23908	12	19°600	21°963					24128*	16	14°814	8°039
23835	5	11°961	15°790	23909	7	22°196	21°277					24129	9	22°441	8°864
23836	5	16°834	15°125	23910	5	24°747	21°358					24130	14	2°850	9°531

R. A. 7^h 57^m

Plate 2535; 1907 Feb. 27.

Provisional Constants.

A	B	C
-00019	+00579	+2316

D	E	F
-00577	-00044	-1322

Mag. = 14.6 - 1.25 $\sqrt{d}$

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24004	6	19°409	0°012
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24006	5	23°172	0°776
24007	6	23°930	0°531
24008	4	24°121	0°523
24009	4	0°171	1°252
24010	7	0°370	1°568
24011	6	0°564	1°249
24012	11	4°084	1°114
24013	9	6°277	1°731
24014	4	8°013	1°932
24015	5	12°351	1°871
24016	4	13°126	1°528
24017	4	17°325	1°786
24018	6	20°197	1°044
24019	4	22°413	1°875
24020	8	23°106	1°944
24021	11	25°204	1°914
24022	4	2°188	2°017
24023	6	3°300	2°226
24024	8	3°677	2°921
24025	7	5°133	2°002
24026	9	6°192	2°359
24027	10	7°163	2°292
24028	4	9°361	2°393
24029*	13	10°349	2°331
24030*	14	10°702	2°800
24031	5	12°606	2°169
24032	7	13°775	2°299
24033	9	16°820	2°879
24034	6	16°995	2°359
24035	8	18°566	2°647
24036	10	19°524	2°911
24037	9	19°841	2°771
24038	8	20°573	2°344
24039	10	22°574	2°708
24040	11	23°492	2°955
24041	8	24°345	2°254
24042	11	24°691	2°941
24043	4	0°272	3°266
24044	7	2°315	3°753
24045*	13	5°095	3°999
24046	10	8°789	3°799
24047	7	9°516	3°341
24048	9	11°758	3°466
24049	7	12°417	3°710
24050	9	13°780	3°300
24051	6	14°285	3°999
24052	4	15°898	3°841
24053	13	17°604	3°388
24054	10	18°108	3°888
24055	5	20°300	3°488
24056	6	21°832	3°341

24131	5	5°048	9°228	24205	5	24°247	13°495	24279	9	23°045	17°197	24353	8	21°679	22°760	24407	17	17°284	0°032
24132	6	5°166	9°033	24206	11	25°288	13°984	24280	6	24°666	17°024	24354	5	25°450	22°034	24408*	36	19°454	0°957
24133	7	5°864	9°790	24207	14	6°311	14°459	24281	8	1°698	18°261	24355	4	25°468	22°053	24409*	10	23°654	0°471
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24135	6	6°497	9°215	24209	10	7°331	14°404	24283	7	6°312	18°261	24357	5	1°407	23°970	24411	14	5°190	1°435
24136	10	6°623	9°025	24210	13	13°576	14°004	24284	11	7°460	18°345	24358	13	3°286	23°051	24412	7	7°935	1°634
24137	12	11°479	9°633	24211	12	14°166	14°275	24285	12	7°827	18°044	24359	7	4°688	23°941	24413	7	8°160	1°463
24138	5	11°555	9°701	24212	10	16°417	14°614	24286	4	8°291	18°069	24360	5	4°706	23°965	24414	9	8°672	1°006
24139*	14	13°103	9°525	24213	12	17°871	14°029	24287*	11	8°780	18°189	24361	5	5°714	23°499	24415	5	16°139	1°257
24140	9	16°238	9°853	24214	9	18°322	14°652	24288	4	10°536	18°839	24362*	29	9°926	23°724	24416	19	18°425	1°615
24141	6	16°396	9°640	24215	4	19°097	14°485	24289*	22	10°886	18°333	24363	6	10°823	23°703	24417	7	20°746	1°631
24142	6	16°649	9°100	24216	5	20°107	14°503	24290	6	11°480	18°534	24364	10	11°338	23°921	24418	6	23°305	1°363
24143	7	16°903	9°610	24217	7	20°315	14°134	24291	4	11°901	18°775	24365	7	12°363	23°292	24419	12	25°907	1°297
24144	4	18°571	9°905	24218	8	21°413	14°067	24292	9	12°192	18°293	24366	9	14°558	23°954	24420	7	3°896	2°573
24145*	19	22°440	9°296	24219*	19	21°783	14°918	24293	7	19°975	18°096	24367*	10	19°450	23°754	24421*	17	5°034	2°985
24146*	8	22°868	9°850	24220*	14	23°688	14°464	24294	13	21°914	18°675	24368	8	19°610	23°763	24422*	22	5°185	2°547
24147	7	23°057	9°452	24221*	18	25°040	14°166	24295	11	2°512	19°782	24369	4	21°767	23°271	24423	7	23°345	2°516
24148	5	23°403	9°681	24222	7	25°288	14°217	24296	8	4°873	19°641	24370*	16	24°094	23°311	24424	7	24°436	2°466
24149	5	0°073	10°686	24223	4	0°267	15°581	24297	7	6°916	19°814	24371	9	3°056	24°895	24425	9	25°309	2°596
24150	11	0°308	10°969	24224	10	2°490	15°266	24298	5	9°046	19°024	24372	4	3°185	24°043	24426	8	1°027	3°007
24151	5	1°419	10°864	24225	6	2°833	15°960	24299	10	10°071	19°530	24373*	11	10°296	24°620	24427	7	8°196	3°494
24152	7	1°585	10°527	24226	5	6°142	15°041	24300*	14	15°838	19°968	24374	6	10°665	24°671	24428	6	8°574	3°863
24153	8	4°232	10°288	24227	4	7°021	15°859	24301*	16	15°867	19°901	24375	9	14°266	24°764	24429	10	14°005	3°863
24154	7	6°712	10°159	24228	7	7°070	15°000	24302	6	16°191	19°129	24376	8	15°778	24°632	24430*	15	16°817	3°089
24155	4	9°159	10°698	24229	9	8°599	15°344	24303	7	17°004	19°422	24377	9	15°888	24°354	24431*	14	17°202	3°579
24156	5	11°546	10°059	24230	8	8°996	15°600	24304	8	17°070	19°295	24378	8	17°539	24°774	24432*	51	0°947	4°325
24157	7	18°053	10°340	24231	10	9°058	15°361	24305	9	19°052	19°951	24379	5	19°184	24°623	24433*	20	1°335	4°014
24158	6	18°779	10°522	24232	4	9°452	15°845	24306	4	19°085	19°230	24380	10	20°857	24°628	24434*	26	4°505	4°498
24159	7	19°226	10°501	24233	5	9°505	15°560	24307	14	19°784	19°278	24381	5	0°673	25°483	24435	8	4°595	4°092
24160*	49	19°904	10°533	24234	6	11°649	15°941	24308	6	21°265	19°819	24382*	12	2°996	25°312	24436	19	13°287	4°084
24161	7	20°339	10°246	24235*	29	13°481	15°302	24309	4	21°549	19°810	24383	5	5°024	25°591	24437	11	21°631	4°026
24162	6	22°254	10°055	24236	9	13°533	15°510	24310	5	24°516	19°316	24384	9	7°609	25°536	24438*	24	23°167	4°395
24163	13	22°605	10°752	24237	5	13°864	15°826	24311	9	4°823	20°771	24385	6	7°663	25°366	24439	6	25°483	4°273
24164	8	22°758	10°016	24238	8	14°822	15°537	24312	14	5°672	20°315	24386	4	8°423	25°890	24440*	10	4°606	5°396
24165	12	3°652	11°419	24239	4	15°434	15°969	24313	4	9°544	20°767	24387	4	11°236	25°815	24441*	34	7°625	5°211
24166	5	3°868	11°068	24240	6	17°404	15°628	24314	5	13°678	20°388	24388*	20	14°314	25°176	24442	11	10°325	5°928
24167	4	8°099	11°269	24241*	15	21°411	15°344	24315	4	14°125	20°974	24389	5	15°525	25°371	24443	14	15°075	5°625
24168	5	8°116	11°245	24242	7	22°516	15°988	24316	12	15°551	20°430	24390	4	15°670	25°176	24444*	36	17°775	5°720
24169	6	9°895	11°479	24243	4	24°372	15°239	24317	6	16°520	20°221	24391	11	16°490	25°841	24445	6	18°230	5°763
24170	5	11°327	11°918	24244	5	24°621	15°221	24318	4	18°294	20°990	24392	9	19°209	25°564	24446*	29	20°025	5°415
24171	4	12°044	11°731	24245	7	24°675	15°035	24319*	14	18°567	20°258	24393	4	21°610	25°308	24447*	30	21°634	5°660
24172	6	16°889	11°196	24246	6	1°534	16°301	24320	4	19°198	20°440	24394	5	22°357	25°352	24448	13	6°235	6°237
24173*	20	17°548	11°361	24247	7	2°559	16°573	24321	7	22°249	20°517	24395	5	23°296	25°133	24449	5	16°531	6°666
24174	7	17°768	11°169	24248	15	4°870	16°729	24322	6	22°641	20°057	24396	14	24°375	25°716	24450	10	18°034	6°335
24175	5	18°654	11°965	24249	14	5°138	16°290	24323	10	22°657	20°356	24397	5	25°805	25°007	24451	7	19°555	6°977
24176	9	18°700	11°336	24250	5	6°297	16°366	24324	9	22°929	20°174					24452*	25	19°606	6°143
24177	5	18°954	11°533	24251	8	10°855	16°457	24325*	12	24°464	20°413					24453	5	20°783	6°846
24178	4	23°971	11°378	24252	13	15°376	16°448	24326	6	25°700	20°458					24454	10	23°114	6°772
24179	8	1°722	12°418	24253	7	15°551	16°638	24327	7	1°305	21°369					24455	14	23°709	6°008
24180	7	1°808	12°557	24254	6	19°066	16°555	24328	6	3°355	21°917					24456	5	24°295	6°352
24181	7	5°254	12°878	24255	6	19°801	16°226	24329	11	4°402	21°199					24457	13	2°237	7°567
24182	9	12°567	12°109	24256	5	20°189	16°524	24330	10	5°089	21°900					24458	6	4°152	7°722
24183	7	15°723	12°765	24257	9	20°602	16°682	24331	13	5°690	21°556					24459	6	15°550	7°403
24184	6	19°344	12°108	24258	5	21°594	16°039	24332	5	6°975	21°889					24460	8	18°585	7°996
24185	4	20°750	12°759	24259	6	22°811	16°549	24333	5	14°347	21°684					24461	24	19°074	7°605
24186	6	22°419	12°404	24260	5	22°837	16°712	24334	11	15°004	21°760					24462	5	22°145	7°934
24187	5	22°933	12°323	24261	4	23°576	16°623	24335	5	15°581	21°739					24463	12	23°424	7°988
24188	4	25°511	12°854	24262	8	24°427	16°770	24336	6	18°187	21°432					24464	6	3°576	8°665
24189	14	0°135	13°109	24263	4	1°651	17°442	24337*	17	18°432	21°638					24465	7	11°203	8°616
24190	4	2°464	13°228	24264	10	3°881	17°256	24338	5	19°194	21°284					24466	16	14°695	8°604
24191	11	2°717	13°412	24265	6	7°793	17°068	24339	4	21°950	21°174					24467	10	14°734	8°603
24192*	19	3°173	13°046	24266	6	8°205	17°374	24340	6	23°082	21°576					24468	7	20°582	8°486
24193	5	4°409	13°655	24267	5	8°874	17°006	24341	12	25°958	21°685					24469	6	21°784	8°006
24194	10	7°875	13°650	24268	4	10°232	17°422	24342	5	0°270	22°510					24470	7	22°235	8°543
24195	4	9°674	13°885	24269	5	10°796	17°367	24343*	20	2°969	22°092					24471	8	23°394	8°475
24196	5	12°427	13°879	24270	11	13°004	17°312	24344											

24481	5	12°452	9°647	24555	14	20°829	17°346	24757	10	8°106	2°360	24831	12	6°786	5°510
24482	6	17°975	9°290	24556	7	21°864	17°116	24758	12	8°155	2°939	24832	11	6°843	5°189
24483	6	19°307	9°114	24557	5	23°544	17°916	24759	12	8°652	2°520	24833*	24	8°015	5°395
24484	13	22°990	9°913	24558	18	23°997	17°138	24760	10	8°976	2°232	24834	11	8°129	5°623
24485	5	25°601	9°794	24559*	30	5°885	18°506	24761	10	9°143	2°042	24835	11	8°478	5°577
24486	12	7°059	10°262	24560	16	15°775	18°396	24762	10	10°135	2°363	24836	10	12°052	5°284
24487	10	7°195	10°681	24561	16	16°531	18°687	24763	10	10°231	2°930	24837	10	12°258	5°902
24488	5	12°668	10°184	24562	9	18°026	18°436	24764	10	14°309	2°646	24838	12	12°996	5°362
24489	10	12°705	10°130	24563	7	21°086	18°172	24765	13	17°664	2°184	24839	10	14°100	5°462
24490	26	21°246	10°580	24564	18	25°408	18°430	24766	10	17°810	2°449	24840	10	14°845	5°166
24491*	28	1°614	11°484	24565	12	13°855	19°496	24767	10	17°907	2°211	24841	19	15°028	5°009
24492	7	10°156	11°005	24566	14	15°197	19°337	24768	11	18°162	2°541	24842	19	15°931	5°520
24493	14	10°419	11°023	24567*	34	16°324	19°656	24769*	31	18°269	2°187	24843	10	16°188	5°168
24494	6	12°124	11°633	24568	17	21°587	19°184	24770	11	20°490	2°292	24844	13	17°299	5°550
24495	5	15°482	11°027	24569	7	24°764	19°135	24771	13	20°507	2°897	24845*	36	18°217	5°758
24496	7	21°586	11°863	24570*	12	0°105	20°366	24772	12	22°065	2°441	24846	11	18°608	5°946
24497	7	23°279	11°424	24571	6	7°295	20°561	24773	10	24°156	2°176	24847	10	22°420	5°355
24498	5	24°045	11°795	24572	11	7°836	20°677	24774	15	25°494	2°314	24848	11	24°586	5°550
24499	12	25°479	11°425	24573	9	7°886	20°874	24775	17	25°691	2°676	24849	22	25°372	5°725
24500	7	3°019	12°658	24574	8	10°555	20°957	24776	23	1°624	3°019	24850	11	25°392	5°899
24501	7	4°463	12°285	24575	8	10°999	20°734	24777	12	3°242	3°048	24851	22	0°096	6°462
24502	6	9°464	12°591	24576*	14	12°336	20°075	24778	17	4°221	3°669	24852	15	0°688	6°790
24503	12	9°740	12°695	24577	13	14°822	20°391	24779	10	7°176	3°152	24853	17	3°508	6°108
24504	18	10°223	12°421	24578	10	16°785	20°937	24780	10	8°130	3°996	24854*	28	4°136	6°672
24505	9	12°647	12°889	24579	12	17°664	20°802	24781	11	8°245	3°184	24855	12	5°230	6°625
24506	5	13°516	12°876	24580	14	1°619	21°609	24782	10	8°562	3°102	24856	13	6°141	6°618
24507	6	19°429	12°295	24581	6	6°505	21°251	24783	12	8°937	3°400	24857*	22	6°535	6°782
24508	6	22°884	12°397	24582	5	6°546	21°622	24784	11	9°280	3°382	24858	13	8°215	6°162
24509	6	23°895	12°336	24583	7	9°877	21°116	24785	18	9°296	3°000	24859	14	9°476	6°519
24510	20	24°056	12°217	24584	12	10°755	21°715	24786	10	9°850	3°000	24860	10	10°305	6°914
24511	11	0°804	13°923	24585	11	10°976	21°846	24787*	38	10°105	3°036	24861	12	11°015	6°268
24512	6	4°481	13°383	24586	8	11°695	21°532	24788	11	10°688	3°749	24862	29	11°342	6°978
24513	12	5°955	13°565	24587	12	13°747	21°235	24789	10	11°054	3°756	24863	22	11°765	6°937
24514*	15	10°742	13°963	24588	7	15°150	21°996	24790	10	11°099	3°768	24864	11	12°579	6°740
24515	7	12°046	13°585	24589	11	20°835	21°080	24791	12	11°891	3°295	24865	10	13°953	6°293
24516	10	12°317	13°776	24590*	32	23°744	21°035	24792	10	12°697	3°406	24866*	38	14°057	6°592
24517*	46	17°345	13°513	24591	15	3°434	22°082	24793	11	12°716	3°437	24867	12	14°530	6°752
24518*	19	19°334	13°638	24592	6	6°777	22°455	24794	10	15°591	3°089	24868	12	14°903	6°713
24519*	26	21°105	13°045	24593	14	12°503	22°494	24795	12	15°891	3°388	24869	12	16°396	6°703
24520	7	21°246	13°114	24594	5	22°883	22°196	24796	12	16°645	3°773	24870	10	17°303	6°933
24521*	31	0°560	14°108	24595*	35	2°532	23°327	24797	10	17°700	3°178	24871	10	17°339	6°449
24522	6	0°807	14°154	24596	7	8°266	23°952	24798	10	17°936	3°948	24872	13	17°716	6°717
24523	14	4°115	14°572	24597	9	9°221	23°720	24799	11	18°235	3°844	24873	11	21°386	6°333
24524	10	8°086	14°654	24598	6	10°555	23°075	24800	10	18°266	3°476	24874	22	22°820	6°105
24525	6	8°584	14°036	24599	6	12°859	23°282	24801	11	19°092	3°185	24875	15	22°957	6°363
24526*	10	10°138	14°195	24600	17	14°965	23°455	24802	10	20°789	3°497	24876	12	23°585	6°540
24527	16	11°076	14°836	24601	23	16°085	23°610	24803	11	21°080	3°508	24877	10	24°134	6°679
24528	6	14°445	14°577	24602	10	18°955	23°405	24804	15	1°231	4°308	24878	12	24°232	6°175
24529	5	15°125	14°264	24603	12	3°006	24°825	24805	22	1°832	4°688	24879	11	1°605	7°909
24530	10	19°156	14°234	24604	9	9°164	24°933	24806	22	2°576	4°525	24880	13	1°863	7°638
24531	5	21°024	14°456	24605	5	13°848	24°643	24807	19	4°585	4°287	24881	13	4°218	7°355
24532	8	6°735	15°306	24606	10	15°710	24°606	24808	11	4°755	4°785	24882	19	6°914	7°411
24533	8	9°704	15°569	24607	5	19°612	24°674	24809	14	4°930	4°537	24883	10	7°430	7°203
24534	7	13°055	15°974	24608	15	21°014	24°035	24810	17	5°401	4°215	24884	14	8°050	7°161
24535	5	13°925	15°259	24609	17	0°115	25°673	24811	13	6°084	4°380	24885	13	9°009	7°476
24536	6	19°631	15°879	24610	5	8°576	25°764	24812	12	8°581	4°686	24886	10	10°063	7°552
24537	8	20°445	15°856	24611*	30	10°889	25°174	24813*	16	11°075	4°547	24887*	76	10°256	7°354
24538	10	20°500	15°329	24612	7	12°445	25°917	24814*	28	12°019	4°242	24888	13	12°845	7°282
24539	9	22°335	15°925	24613	9	13°106	25°727	24815	22	12°785	4°063	24889	12	13°913	7°413
24540	12	23°914	15°748	24614*	41	13°187	25°244	24816	10	14°217	4°456	24890	13	15°397	7°016
24541	6	0°240	16°975	24615	53	13°875	25°987	24817	10	14°894	4°004	24891	11	17°741	7°798
24542	15	4°454	16°655	24616	11	14°694	25°044	24818	10	16°308	4°262	24892	12	18°015	7°631
24543	12	5°014	16°866					24819	10	17°448	4°422	24893	12	19°294	7°330
24544	8	6°357	16°631					24820*	15	18°608	4°064	24894	10	19°569	7°419
24545	5	6°992	16°512					24821	10	19°616	4°352	24895*	33	19°911	7°237
24546	10	8°964	16°266					24822	10	20°531	4°101	24896	10	20°969	7°179
24547	11	11°346	16°595					24823*	32	21°836	4°245	24897	13	21°462	7°010
24548	16	12°473	16°399					24824	11	22°481	4°889	24898	10	21°851	7°058
24549	9	15°216	16°326					24825	10	22°488	4°138	24899	13	22°110	7°467
24550	14	19°100	16°454					24826	12	23°815	4°244	24900	11	23°435	7°750
24551	12	5°916	17°724					24827	12	1°066	5°703	24901	11	24°420	7°425
24552	14	6°680	17°737					24828	12	2°570	5°767	24902	11	24°947	7°624
24553	24	14°025	17°794					24829*	45	3°073	5°246	24903	19	0°395	8°322
24554	8	18°435	17°126					24830	10	3°811	5°940	24904	12	1°098	8°485

R. A. 8^h 15^m

Plate 1874; 1901 Oct. 31.

Provisional Constants.

A B C
 -00073 +00928 -1267

D E F
 -00914 -00073 -0446

Mag. = 15.8 - 1.25√d

No.	d	x.	y
24701	32	2°627	0°194
24702	10	3°672	0°748
24703	14	4°237	0°550
24704	22	4°275	0°388
24705*	21	5°776	0°469
24706	10	7°402	0°039
24707	11	8°107	0°461
24708*	38	8°809	0°310
24709	22	10°372	0°838
24710	11	10°754	0°666
24711	10	10°758	0°170
24712	10	11°113	0°278
24713	20	13°566	0°393
24714	10	14°316	0°490
24715	10	16°338	0°744
24716*	24	16°645	0°252
24717	12	17°173	0°471
24718	22	17°809	0°858
24719	11	18°978	0°423
24720*	22	20°382	0°870
24721	10	21°002	0°063
24722	10	22°045	0°725
24723	11	22°258	0°937
24724	21	23°068	0°520
24725	12	23°454	0°578
24726	10	23°465	0°825
24727	21	0°720	1°270
24728	18	1°379	1°734
24729	19	1°811	1°922
24730	32	2°195	1°708
24731	25	2°258	1°285
24732	27	2°516	1°505
24733	14	4°157	1°232
24734	22	4°972	1°463
24735	10	6°106	1°144
24736	14	6°995	1°588
24737	10	11°228	1°927
24738	12	11°277	1°853
24739	10	13°659	1°522
24740	10	14°931	1°609
24741	12	18°022	1°519
24742	10	19°170	1°269
24743	11	21°136	1°587
24744	11	21°750	1°835
24745	13	22°765	1°144
24746	13	23°124	1°945
24747	10	24°313	1°698
24748	22	0°750	2°905
24749	32	3°352	2°109
24750	12	3°496	2°651
24751	11	4°258	2°924
24752*	32	4°552	2°172
24753	10	4°606	2°832
24754	12	6°348	2°295
24755	12	7°488	2°573
24756	11	7°488	2°322

24905	13	2°6'43	8°53'6	24979	10	12°55'1	11°28'8	25053	11	23°9'45	14°8'69	25127	10	12°1'97	18°28'6	25201	12	6°7'18	21°8'50
24906	12	2°6'97	8°7'09	24980	12	13°4'36	11°37'2	25054	12	24°9'15	14°47'9	25128	19	14°7'68	18°3'29	25202	10	7°0'91	21°2'51
24907	13	4°4'05	8°3'22	24981*	22	23°5'74	11°24'0	25055	10	25°8'93	14°7'85	25129	10	15°2'68	18°8'05	25203	12	7°5'74	21°2'10
24908	10	5°1'90	8°5'12	24982	22	0°4'15	12°7'85	25056	13	1°2'68	15°8'63	25130	12	15°4'65	18°1'55	25204	11	7°6'80	21°4'27
24909	10	8°1'22	8°0'57	24983	15	0°5'56	12°2'38	25057	11	2°3'01	15°3'01	25131	10	16°6'00	18°6'87	25205	19	8°0'55	21°4'20
24910	15	9°1'63	8°0'77	24984	28	0°5'74	12°6'58	25058	10	6°7'85	15°1'16	25132	10	20°0'95	18°5'72	25206	10	9°0'65	21°2'18
24911	12	10°8'67	8°7'47	24985	13	0°6'08	12°7'96	25059	10	7°5'78	15°3'38	25133	12	21°5'51	18°5'62	25207	21	10°3'04	21°9'12
24912	10	11°2'20	8°4'66	24986	12	1°4'69	12°6'67	25060	12	8°2'53	15°3'37	25134	10	22°1'35	18°7'22	25208	10	12°2'64	21°0'00
24913	12	11°9'51	8°8'49	24987	14	2°6'17	12°6'08	25061	11	9°6'06	15°6'94	25135	12	23°0'60	18°4'82	25209	13	13°3'39	21°8'28
24914	13	12°1'06	8°5'73	24988	14	2°7'58	12°1'51	25062	10	13°2'07	15°6'45	25136	11	23°9'37	18°8'75	25210	10	16°0'00	21°0'74
24915	11	12°2'98	8°1'52	24989	11	4°7'04	12°7'26	25063	13	13°8'42	15°0'95	25137	11	23°9'42	18°3'39	25211	10	18°3'47	21°2'53
24916	13	12°5'53	8°4'40	24990	11	5°4'23	12°2'60	25064	13	14°3'15	15°6'62	25138	17	24°9'35	18°3'70	25212	10	18°4'65	21°1'48
24917	12	12°6'35	8°2'82	24991	10	5°9'28	12°0'78	25065	12	14°3'66	15°7'08	25139	20	1°4'25	19°5'61	25213	10	19°6'18	21°0'62
24918*	42	12°9'67	8°5'52	24992	12	6°1'90	12°8'75	25066	19	14°6'12	15°7'60	25140	15	5°0'35	19°3'92	25214	10	20°5'14	21°3'97
24919	13	13°2'17	8°5'16	24993	10	6°2'69	12°0'78	25067	10	17°2'08	15°1'53	25141	10	6°3'99	19°9'72	25215	10	22°7'14	21°1'61
24920	12	16°8'08	8°8'76	24994	10	6°7'27	12°5'62	25068	12	18°7'56	15°0'53	25142	11	6°4'79	19°4'43	25216	10	22°7'98	21°8'91
24921	10	19°6'01	8°8'26	24995	12	7°8'62	12°8'13	25069	13	20°4'03	15°8'10	25143	13	6°6'88	19°0'51	25217	10	23°5'93	21°9'57
24922	10	19°9'93	8°4'79	24996	11	8°6'80	12°4'85	25070	10	21°4'62	15°4'42	25144	10	6°9'95	19°6'52	25218	10	24°7'48	21°1'93
24923	11	21°1'90	8°6'22	24997	11	9°3'72	12°5'90	25071	13	21°5'21	15°3'30	25145	12	7°5'81	19°6'59	25219	20	25°3'68	21°9'52
24924	10	22°1'72	8°4'42	24998	16	9°8'19	12°4'75	25072	12	21°5'60	15°8'38	25146*	22	8°5'15	19°3'42	25220*	32	4°4'35	22°6'01
24925	11	22°2'01	8°0'97	24999	15	14°3'99	12°1'72	25073	10	21°8'82	15°9'92	25147	11	8°8'13	19°2'79	25221	11	4°9'91	22°9'43
24926	12	24°3'90	8°2'27	25000	13	15°3'09	12°0'65	25074	12	22°2'90	15°3'24	25148	10	10°8'21	19°3'37	25222	12	6°5'06	22°2'32
24927	11	24°4'62	8°4'07	25001	19	16°6'70	12°4'97	25075	10	22°3'12	15°3'99	25149	10	12°3'99	19°7'57	25223	11	7°2'52	22°8'44
24928	10	25°0'40	8°8'76	25002	20	16°9'08	12°7'99	25076	10	23°2'80	15°5'15	25150	11	12°5'51	19°5'21	25224	10	8°6'67	22°9'35
24929	11	25°9'35	8°0'41	25003	11	16°9'92	12°6'98	25077	12	23°9'75	15°4'36	25151	10	12°7'76	19°8'40	25225*	32	10°3'01	22°2'52
24930	22	0°3'10	9°2'47	25004	11	18°1'38	12°9'83	25078	22	0°5'06	16°1'90	25152	10	13°6'57	19°8'89	25226	11	10°4'17	22°1'23
24931	12	2°6'65	9°0'86	25005	11	18°2'89	12°5'69	25079	13	0°7'30	16°7'45	25153	10	13°6'87	19°5'77	25227	15	10°5'05	22°9'04
24932	15	2°6'70	9°0'66	25006	12	18°8'65	12°4'15	25080	10	5°0'48	16°5'50	25154	11	14°5'19	19°2'95	25228	10	11°6'49	22°0'34
24933*	42	3°5'46	9°4'75	25007	13	19°1'55	12°8'58	25081	10	5°3'54	16°8'72	25155	12	15°0'83	19°9'84	25229	12	13°6'43	22°7'25
24934	12	5°5'30	9°8'20	25008	11	20°6'35	12°4'53	25082	10	5°4'96	16°1'01	25156	10	16°5'59	19°2'60	25230	11	16°0'69	22°7'00
24935	22	5°5'56	9°5'40	25009	10	21°0'47	12°3'10	25083	10	6°4'37	16°6'89	25157	11	16°7'14	19°9'37	25231	18	16°1'52	22°1'19
24936	10	6°4'20	9°4'34	25010	11	21°4'93	12°1'81	25084	10	6°9'88	16°6'50	25158	18	17°3'70	19°2'25	25232	10	17°8'24	22°5'94
24937*	32	6°8'70	9°0'48	25011	10	23°1'70	12°1'77	25085	12	7°0'55	16°4'70	25159	11	20°4'45	19°5'26	25233	11	19°6'16	22°1'60
24938	11	7°9'06	9°9'12	25012	10	24°6'48	12°5'87	25086	10	7°4'76	16°2'32	25160	10	21°4'42	19°1'03	25234	10	20°0'76	22°3'38
24939	11	9°8'25	9°2'68	25013	12	25°4'51	12°8'55	25087	10	11°1'06	16°8'18	25161	12	21°5'82	19°7'34	25235	10	21°8'47	22°2'58
24940	10	10°2'39	9°1'66	25014	13	25°8'30	12°8'30	25088	10	12°4'91	16°9'09	25162	10	23°3'45	19°5'94	25236	13	22°1'45	22°9'00
24941	12	14°6'17	9°4'08	25015	17	0°4'36	13°7'09	25089	13	13°2'12	16°4'59	25163	10	23°9'97	19°2'22	25237	12	22°2'14	22°2'36
24942*	40	14°9'97	9°8'75	25016	13	1°9'76	13°2'65	25090	24	13°8'20	16°3'34	25164	10	24°0'92	19°6'11	25238	32	22°9'98	22°2'08
24943	12	17°2'91	9°0'71	25017	14	2°7'80	13°0'32	25091	10	14°7'65	16°9'72	25165	10	24°1'88	19°5'54	25239	11	23°0'03	22°4'81
24944	12	17°2'95	9°6'16	25018	12	3°6'11	13°5'25	25092	11	14°9'31	16°5'80	25166	17	0°2'33	20°3'09	25240	10	23°7'29	22°1'97
24945	12	19°6'57	9°9'45	25019	10	5°0'55	13°8'09	25093	15	17°9'91	16°1'25	25167	15	0°7'58	20°1'25	25241	14	24°7'13	22°1'57
24946	10	20°1'75	9°2'63	25020	12	6°9'17	13°9'10	25094	10	18°1'99	16°6'84	25168	13	1°2'89	20°4'80	25242	10	25°1'84	22°1'20
24947	13	22°3'69	9°3'87	25021	10	7°2'36	13°7'82	25095	18	20°8'50	16°4'56	25169	16	2°4'00	20°3'11	25243	23	0°8'15	23°4'38
24948	10	23°8'36	9°1'65	25022	10	7°2'42	13°0'23	25096	18	22°2'90	16°1'07	25170	12	3°1'65	20°2'11	25244	20	1°4'68	23°1'00
24949	15	0°9'06	10°7'75	25023	10	7°2'96	13°1'80	25097	27	0°6'20	17°5'80	25171	11	5°5'62	20°9'55	25245	15	2°2'17	23°7'24
24950	14	2°0'66	10°2'05	25024	11	7°3'86	13°8'50	25098	13	1°7'91	17°4'89	25172	11	6°9'81	20°5'73	25246	12	2°8'04	23°6'10
24951	11	2°6'55	10°2'33	25025	10	7°4'91	13°7'66	25099	15	7°4'14	17°2'86	25173	10	8°0'35	20°1'12	25247	13	3°3'20	23°4'48
24952	15	2°7'08	10°3'42	25026	12	8°9'00	13°0'34	25100	12	9°0'52	17°1'96	25174	11	8°4'89	20°0'57	25248	13	4°0'75	23°7'25
24953	10	5°7'33	10°7'51	25027	12	10°4'55	13°6'92	25101	10	10°6'70	17°0'70	25175	10	10°4'69	20°9'79	25249	11	4°7'05	23°5'67
24954	11	7°6'54	10°8'10	25028	10	10°5'96	13°3'12	25102	11	11°1'16	17°1'58	25176	10	11°6'02	20°7'42	25250	10	6°3'58	23°9'47
24955	11	11°0'48	10°6'67	25029	12	11°7'78	13°8'93	25103	10	11°3'76	17°4'93	25177	21	12°9'33	20°5'89	25251	13	7°2'50	23°0'41
24956	12	12°7'25	10°5'75	25030	12	13°1'70	13°3'35	25104*	24	13°0'48	17°6'65	25178	10	13°8'40	20°1'36	25252	10	7°9'81	23°8'26
24957	13	13°3'39	10°3'35	25031	13	14°6'44	13°1'09	25105	11	14°8'95	17°4'00	25179	13	14°6'35	20°5'59	25253	11	8°1'32	23°4'91
24958	13	17°1'46	10°5'18	25032	12	17°6'20	13°2'73	25106	10	16°9'11	17°3'68	25180	15	15°9'17	20°9'73	25254	10	8°1'92	23°0'35
24959*	42	17°5'45	10°9'13	25033	13	17°7'54	13°5'20	25107	12	17°0'40	17°8'27	25181	10	18°1'93	20°8'00	25255	11	8°2'90	23°5'01
24960	10	19°8'27	10°4'64	25034	13	18°1'53	13°2'46	25108	10	17°7'82	17°0'93	25182	10	19°1'35	20°8'62	25256	12	8°7'69	23°5'48
24961	10	20°7'36	10°3'78	25035	11	18°5'93	13°2'50	25109	19	18°9'28	17°5'68	25183	13	20°6'71	20°8'34	25257	10	8°9'34	23°3'08
24962	10	22°5'37	10°0'52	25036	10	20°7'11	13°2'20	25110	12	20°6'91	17°8'14	25184	10	21°1'07	20°1'36	25258	13	9°8'48	23°6'07
24963	13	22°7'94	10°0'69	25037	13	21°3'56	13°0'26	25111	10	22°6'16	17°1'25	25185	11	21°2'31	20°4'18	25259	10	13°2'32	23°2'95

25275	13	6.887	24.858	25403	6	13.315	0.967	25477	8	22.404	13.335	25657	10	11.965	4.798
25276	18	7.138	24.789	25404	6	15.035	0.934	25478	5	5.455	14.135	25658	14	12.085	4.405
25277	10	7.199	24.001	25405	7	13.735	1.034	25479*	12	6.050	14.348	25659	8	13.582	4.195
25278	10	7.257	24.442	25406	5	22.194	1.093	25480	11	12.479	14.236	25660	20	15.095	4.436
25279	10	9.350	24.894	25407*	18	5.709	2.408	25481	7	18.205	14.572	25661	15	15.906	4.292
25280	10	9.772	24.225	25408	8	15.930	2.483	25482*	46	2.882	15.005	25662	20	16.407	4.922
25281	12	9.850	24.919	25409*	60	3.734	3.465	25483	7	3.035	15.403	25663	21	17.969	4.087
25282	10	10.051	24.645	25410	7	11.945	3.876	25484	7	17.241	15.632	25664	14	18.559	4.121
24283	10	11.147	24.559	25411	6	14.460	3.528	25485*	11	17.826	15.207	25665	10	18.574	4.420
24284	10	11.287	24.111	25412	6	14.666	3.727	25486	5	23.145	15.632	25666	6	22.347	4.561
24285	10	14.781	24.500	25413	7	15.356	3.335	25487	7	23.282	15.595	25667	10	23.548	4.635
25286	11	15.639	24.443	25414	6	18.707	3.526	25488	5	23.855	15.734	25668	8	24.462	4.502
25287	10	18.156	24.761	25415	11	2.648	4.202	25489	5	4.616	16.756	25669	21	5.654	5.026
25288	10	18.839	24.271	25416	5	9.852	4.788	25490	8	9.617	16.026	25670	19	8.301	5.378
25289	10	20.046	24.052	25417	6	12.021	4.407	25491	5	15.450	16.375	25671	13	8.400	5.023
25290	10	20.945	24.347	25418	9	14.508	4.283	25492	7	0.614	17.947	25672	9	14.333	5.646
25291	11	21.371	24.501	25419	10	15.075	4.604	25493*	25	3.456	17.005	25673	19	15.370	5.140
25292	11	22.740	24.560	25420	6	15.407	4.106	25494	10	3.752	17.746	25674	16	15.913	5.313
25293	13	24.654	24.049	25421	5	21.349	4.530	25495	5	3.925	17.423	25675	13	16.680	5.143
25294	19	24.756	24.117	25422	11	0.917	5.297	25496	5	8.750	17.693	25676	17	18.430	5.595
25295	22	25.259	24.085	25423	9	15.696	5.275	25497*	26	12.675	17.264	25677	22	23.985	5.829
25296	10	25.367	24.862	25424	7	19.135	5.534	25498	7	16.139	17.375	25678	27	24.615	5.797
25297	18	1.212	25.071	25425	9	21.193	5.882	25499*	7	17.686	17.484	25679	16	24.645	5.705
25298	17	2.176	25.124	25426	6	5.584	6.501	25500	5	3.005	18.563	25680	8	25.900	5.750
25299	20	5.321	25.063	25427	5	5.600	6.894	25501*	14	8.125	18.485	25681	16	2.197	6.200
25300	22	5.340	25.591	25428	6	8.228	6.764	25502	5	11.379	18.294	25682*	34	6.784	6.538
25301*	27	6.177	25.803	25429	7	14.464	6.165	25503	6	19.124	18.931	25683	21	6.827	6.785
25302	10	8.077	25.891	25430	5	16.539	6.936	25504	5	4.730	19.555	25684	7	8.449	6.805
25303	15	8.260	25.983	25431	7	17.086	6.105	25505	5	13.372	19.768	25685	8	8.752	6.998
25304	10	8.494	25.852	25432	8	7.144	7.726	25506	5	13.377	19.793	25686	14	10.267	6.415
25305	10	13.281	25.595	25433	6	11.086	7.398	25507*	17	24.394	19.065	25687	15	12.150	6.914
25306	12	13.547	25.438	25434	5	12.286	7.931	25508	10	8.891	20.006	25688	20	12.763	6.762
25307	10	14.149	25.443	25435*	10	20.609	7.940	25509	7	10.481	20.738	25689	22	13.255	6.026
25308	10	14.399	25.915	25436	8	21.619	7.163	25510	6	18.698	20.476	25690	20	13.522	6.615
25309	10	14.621	25.355	25437	5	1.656	8.748	25511*	12	20.504	20.940	25691	14	14.584	6.062
25310	10	15.617	25.498	25438	5	11.732	8.876	25512	5	22.543	20.333	25692	7	17.374	6.340
25311	10	17.025	25.836	25439	10	15.890	8.556	25513	6	1.086	21.526	25693	6	17.760	6.606
25312	10	17.175	25.147	25440	7	19.597	8.855	25514	6	1.807	21.899	25694*	30	18.279	6.064
25313	10	17.556	25.643	25441*	21	21.980	8.533	25515*	24	1.965	21.078	25695	11	18.737	6.700
25314	11	18.055	25.322	25442	10	4.676	9.481	25516	14	5.204	21.339	25696	7	19.510	6.850
25315	13	18.165	25.933	25443	7	13.705	9.282	25517*	8	10.861	21.474	25697	20	22.097	6.736
25316	10	18.952	25.372	25444	6	14.076	9.456	25518	6	14.174	21.104	25698	8	22.534	6.424
25317	10	20.099	25.372	25445	12	16.906	9.665	25519	5	14.897	21.431	25699	7	23.100	6.020
25318	11	21.310	25.152	25446	7	21.835	9.765	25520	5	17.505	21.807	25700	16	24.475	6.007
25319	10	21.398	25.339	25447*	20	23.447	9.417	25521	5	18.939	21.995	25701	24	25.899	6.883
25320*	32	21.405	25.653	25448	5	24.273	9.725	25522*	24	24.450	21.751	25702	11	0.781	7.873
25321	13	22.026	25.983	25449	13	0.236	10.157	25523	7	1.625	22.974	25703	18	1.776	7.204
25322	10	22.975	25.982	25450	12	2.186	10.864	25524	7	11.331	22.607	25704	14	4.049	7.926
25323	13	23.788	25.357	25451*	23	6.032	10.991	25525	5	22.184	22.235	25705	6	4.656	7.686
25324	22	25.627	25.552	25452	9	13.596	10.925	25526*	5	23.494	22.036	25706	20	8.521	7.457
				25453	7	16.815	10.587	25527*	27	1.925	23.795	25707	14	10.277	7.202
				25454	7	19.578	10.451	25528*	16	10.065	23.236	25708	13	10.423	7.809
				25455*	14	19.585	10.406	25529	8	10.355	23.915	25709	10	10.685	7.787
				25456	6	24.284	10.162	25530	6	10.651	23.071	25710	13	11.120	7.365
				25457*	11	24.886	10.358	25531	5	13.255	23.933	25711	11	14.229	7.854
				25458	16	6.026	11.020	25532	5	17.355	23.833	25712	6	18.951	7.315
				25459	7	6.274	11.516	25533	6	21.120	23.184	25713	9	19.187	7.762
				25460	6	6.403	11.874	25534	10	20.351	24.095	25714	9	20.776	7.941
				25461	5	11.665	11.449	25535*	12	24.625	24.524	25715	20	22.788	7.881
				25462	6	11.736	11.436	25536	7	15.225	25.634	25716	8	23.062	7.857
				25463	6	15.637	11.004	25537	7	16.155	25.518	25717	14	23.871	7.999
				25464	7	17.164	11.226					25718	8	24.043	7.309
				25465	5	23.985	11.366					25719	18	25.187	7.954
				25466	6	1.075	12.426					25720*	40	25.947	7.569
				25467	6	1.448	12.395					25721	15	1.702	8.097
				25468	12	13.668	12.282					25722	8	7.222	8.886
				25469	6	18.981	12.645					25723	20	13.595	8.126
				25470	7	19.805	12.896					25724	21	15.123	8.446
				25471	10	1.985	13.307					25725	10	16.695	8.439
				25472*	9	7.961	13.914					25726	7	16.979	8.424
				25473	14	13.245	13.485					25727	7	18.914	8.392
				25474	12	14.876	13.225					25728	8	22.615	8.521
				25475	5	17.754	13.967					25729	9	23.484	8.777
				25476	7	18.982	13.884					25730	9	23.588	8.898

R. A. 8^h 33^m

Plate 1735; 1901 Mar. 25.

Provisional Constants.

A B C
-00042 +00668 -1761D E F
-00654 -00034 -3319

Mag. = 16.1 - 1.25√d

No.	d	x	y
25601*	38	9.152	0.244
25602	8	13.314	0.541
25603	8	16.226	0.550
25604	26	16.467	0.806
24605	10	17.500	0.659
25606	8	17.762	0.865
25607	10	25.001	0.268
25608	27	2.466	1.271
25609	12	5.315	1.656
25610	15	6.334	1.258
25611	11	7.790	1.461
25612	10	7.883	1.795
25613	15	7.884	1.298
25614	11	8.681	1.647
25615	21	9.365	1.989
25616	9	10.960	1.406
25617	23	12.402	1.990
25618	7	16.225	1.298
25619	14	18.516	1.012
25620	9	20.752	1.562
25621	20	21.730	1.100
25622	10	21.809	1.676
25623	12	22.070	1.668
25624	21	23.757	1.693
25625	13	0.634	2.656
25626	19	1.997	2.585
25627	18	4.294	2.484
25628	15	5.396	2.143
25629	12	7.105	2.937
25630	13	8.617	2.685
25631	20	13.460	2.226
25632*	20	17.822	2.818
25633	17	20.481	2.892
25634	8	23.072	2.034
25635	38	2.873	3.638
25636	8	4.476	3.086
25637	11	5.884	3.022
25638	15	6.149	3.661
25639	14	6.517	3.309
25640	18	8.108	3.142
25641	24	8.770	3.382
25642	10	11.344	3.357
25643	19	12.435	3.343
25644*	28	12.750	3.352
25645	12	12.992	3.435
25646	18	13.319	3.384
25647	7	14.029	3.350
25648	12	16.517	3.345
25649	20	17.291	3.852
25650*	20	18.006	3.496
25651	10	19.736	3.302
25652	10	21.256	3.770
25653	16	0.114	4.303
25654	15	1.118	4.445
25655	31	2.504	4.163
25656	13	2.597	4.701

25731	12	24°626	8°978	25805	20	6°301	13°918	25879	14	15°406	18°815	25953	9	5°429	24°610	26028	10	10°438	2°054
25732	8	25°031	8°128	25806	16	6°512	13°044	25880	14	20°565	18°787	25954	18	10°235	24°095	26029*	33	10°497	2°010
25733	10	25°997	8°579	25807	7	10°192	13°635	25881	14	24°392	18°458	25955	23	11°053	24°457	26030	7	11°415	2°227
25734*	30	0°020	9°833	25808	7	10°833	13°330	25882	9	24°752	18°135	25956	28	13°170	24°973	26031	10	12°688	2°790
25735	6	1°305	9°596	25809	20	11°542	13°191	25883	10	25°708	18°860	25957	20	13°815	24°534	26032	8	14°037	2°950
25736	12	3°109	9°934	25810	8	12°706	13°452	25884*	30	1°192	19°455	25958	8	15°946	24°222	26033	8	14°943	2°178
25737	16	3°117	9°183	25811	10	12°814	13°613	25885	13	2°477	19°468	25959	8	16°609	24°871	26034	8	17°250	2°957
25738	22	4°395	9°999	25812	8	13°345	13°498	25886*	31	2°853	19°083	25960	8	18°695	24°617	26035*	34	17°335	2°665
25739	10	4°784	9°293	25813	19	13°987	13°585	25887	20	5°075	19°464	25961	10	19°565	24°478	26036	13	17°368	2°542
25740	10	5°658	9°431	25814	15	14°464	13°294	25888	13	8°170	19°666	25962*	39	21°025	24°769	26037	10	18°102	2°647
25741	10	6°148	9°891	25815	18	15°265	13°379	25889	10	8°972	19°087	25963	7	23°143	24°651	26038	11	20°790	2°348
25742	18	7°328	9°984	25816	7	15°501	13°313	25890	10	11°505	19°064	25964	10	24°160	24°080	26039	11	21°711	2°415
25743	20	8°189	9°443	25817	12	15°576	13°504	25891	8	14°348	19°187	25965	11	2°934	25°185	26040	11	22°788	2°933
25744	17	10°397	9°246	25818	7	15°886	13°066	25892	6	17°685	19°358	25966	20	3°702	25°275	26041	9	23°659	2°567
25745	9	11°177	9°548	25819	10	18°804	13°833	25893	5	18°163	19°442	25967	10	5°434	25°085	26042	11	25°759	2°010
25746	8	11°391	9°739	25820	9	19°754	13°654	25894	6	18°944	19°883	25968*	43	5°883	25°280	26043	31	2°562	3°897
25747	18	11°807	9°748	25821	9	20°174	13°144	25895	12	22°665	19°477	25969	8	13°354	25°262	26044	9	3°005	3°471
25748	8	12°208	9°736	25822	12	1°556	14°368	25896	22	23°647	19°694	25970	20	16°581	25°473	26045	8	11°350	3°471
25749	8	14°304	9°967	25823	8	2°739	14°156	25897	18	4°725	20°559	25971	21	17°175	25°250	26046	18	12°372	3°590
25750	12	14°805	9°516	25824	18	5°385	14°234	25898	14	6°653	20°241	25972	16	19°934	25°170	26047	8	13°832	3°026
25751	8	15°627	9°906	25825	20	5°424	14°318	25899*	51	8°486	20°329	25973	10	21°749	25°301	26048	6	15°731	3°480
25752	14	15°935	9°037	25826	20	8°887	14°914	25900	10	12°913	20°478	25974	9	21°788	25°826	26049	12	16°212	3°194
25753	20	16°042	9°655	25827	9	10°356	14°885	25901	8	12°989	20°496	25975	20	23°176	25°913	26050	12	18°273	3°235
25754	20	19°363	9°055	25828*	22	10°701	14°566	25902	12	13°013	20°526	25976	12	24°922	25°407	26051	12	18°936	3°209
25755	6	19°375	9°215	25829	9	11°305	14°319	25903	22	13°160	20°229					26052	9	19°047	3°721
25756	21	19°425	9°743	25830	11	15°687	14°423	25904	32	13°593	20°560					26053*	43	20°390	3°017
25757	13	20°217	9°237	25831	20	15°776	14°249	25905	8	15°827	20°229					26054	12	22°624	3°730
25758	13	20°980	9°120	25832	8	16°902	14°737	25906	20	16°118	20°847					26055	10	24°803	3°607
25759	20	21°045	9°334	25833	7	16°968	14°662	25907	8	18°345	20°844					26056	12	3°047	4°970
25760	22	23°577	9°473	25834	8	16°972	14°374	25908	7	19°208	20°933					26057	12	4°411	4°654
25761	21	23°852	9°586	25835	12	1°714	15°013	25909	8	19°345	20°672					26058	10	7°029	4°218
25762	20	25°222	9°661	25836	23	4°678	15°723	25910	13	21°516	20°451					26059	6	10°734	4°864
25763	16	0°849	10°122	25837	12	7°398	15°929	25911	18	23°042	20°842					26060	6	11°791	4°300
25764	21	0°870	10°557	25838	7	8°388	15°455	25912*	22	24°774	20°652					26061	8	12°231	4°870
25765*	30	1°480	10°743	25839	8	8°546	15°098	25913	20	2°610	21°577					26062	17	12°290	4°034
25766	10	4°176	10°953	25840	17	10°378	15°610	25914	8	6°208	21°192					26063	15	12°590	4°438
25767	17	5°094	10°187	25841	9	11°048	15°237	25915	10	6°964	21°005					26064	10	13°065	4°871
25768	10	5°671	10°650	25842	19	11°170	15°143	25916	10	7°461	21°942					26065	18	15°036	4°809
25769	9	5°768	10°414	25843	7	11°771	15°854	25917*	40	8°084	21°420					26066	10	15°120	4°892
25770	15	16°297	10°365	25844	7	12°601	15°554	25918*	30	9°340	21°265					26067	11	17°110	4°985
25771	6	19°746	10°317	25845	20	14°534	15°755	25919	19	9°402	21°100					26068	6	18°921	4°692
25772	10	22°911	10°731	25846	9	17°735	15°548	25920	8	11°342	21°070					26069	11	19°837	4°050
25773	7	23°444	10°375	25847	8	18°521	15°165	25921	10	13°838	21°678					26070	7	20°521	4°287
25774	6	24°345	10°295	25848	8	20°649	15°598	25922	10	16°817	21°998					26071	10	11°571	5°873
25775	13	0°599	11°769	25849	10	22°800	15°317	25923	11	20°070	21°105					26072	8	11°856	5°259
25776	6	3°884	11°049	25850	19	0°574	16°136	25924	19	20°786	21°561					26073	9	12°502	5°900
25777	12	7°964	11°898	25851	12	4°187	16°981	25925	22	21°018	21°148					26074	9	16°585	5°397
25778	8	13°042	11°838	25852	13	4°531	16°378	25926*	21	0°359	22°449					26075	7	18°821	5°370
25779	14	14°854	11°157	25853	22	6°951	16°931	25927*	40	1°313	22°135					26076	11	22°549	5°482
25780	20	15°040	11°396	25854	8	14°783	16°076	25928	9	8°233	22°352					26077	12	22°790	5°980
25781	23	15°178	11°216	25855	20	14°947	16°969	25929	22	8°388	22°838					26078*	25	25°165	5°304
25782	8	15°305	11°091	25856	11	15°437	16°228	25930	13	9°775	22°602					26079	12	25°400	5°667
25783	8	17°535	11°549	25857	6	16°461	16°359	25931	8	11°024	22°655					26080	15	0°090	6°136
25784	19	20°496	11°719	25858	22	18°041	16°094	25932	8	11°838	22°123					26081	12	0°585	6°306
25785	9	20°535	11°656	25859	13	18°978	16°703	25933	7	13°464	22°196					26082	20	0°721	6°090
25786	7	24°516	11°573	25860	8	19°597	16°106	25934	5	14°944	22°336					26083	9	3°427	6°104
25787	10	2°674	12°484	25861	9	20°422	16°016	25935*	36	14°965	22°823					26084	18	4°317	6°256
25788	16	4°395	12°976	25862	19	21°432	16°030	25936	9	16°888	22°727					26085	10	5°225	6°000
25789	8	6°510	12°282	25863	10	22°055	16°755	25937	20	20°944	22°833					26086	10	6°823	6°961
25790	8	7°803	12°363	25864	12	5°885	17°062	25938	7	21°939	22°013					26087	18	7°047	6°657
25791	6	9°716	12°858	25865	13	8°959	17°137	25939	9	7°757	23°899					26088	6	7°167	6°766
25792	9	11°700	12°108	25866	8	12°312	17°753	25940	8	10°593	23°170					26089	12	7°246	6°275
25793	8	12°507	12°169	25867*	28	16°195	17°989	25941	21	11°953	23°615					26090	7	7°776	6°793
25794	22	13°387	12°964	25868	9	18°561	17°578	25942	18	16°296	23°722					26091	19	9°578	6°290
25795	24	13°900	12°267	25869	13	21°149	17°460	25943	8	16°987	23°006					26092	12	9°998	6°391
25796	28	15°163	12°373	25870	7	21°826	17°127	25944*	36	17°329	23°673					26093	6	10°891	6°025
25797	13	15°710	12°637	25871	7	22°110	17°030	25945	7	17°437	23°057					26094	11	15°628	6°100
25798	10	18°887	12°996	25872	14	23°301	17°602	25946	8	18°743	23°737</								

26102	11	7'755	7'332	26176	22	20'428	11'864	26250	12	20'664	17'705	26324	10	10'920	22'675	26404	6	11'446	0'933
26103	12	10'751	7'625	26177	9	21'238	11'156	26251	10	20'674	17'291	26325	12	11'255	22'956	26405	16	11'530	0'483
26104	9	11'826	7'101	26178	10	22'222	11'344	26252	6	21'110	17'592	26326	10	12'779	22'679	26406*	26	13'258	0'155
26105	9	13'540	7'237	26179	17	22'232	11'935	26253	8	22'188	17'240	26327	12	13'247	22'100	26407	20	14'134	0'652
26106	6	15'505	7'773	26180	10	25'583	11'410	26254	15	22'735	17'780	26328	10	14'291	22'159	26408*	39	15'671	0'213
26107	13	16'782	7'550	26181	11	0'372	12'583	26255*	22	22'936	17'359	26329	7	14'304	22'676	26409	12	15'832	0'059
26108	7	19'220	7'592	26182	7	5'433	12'436	26256	10	0'771	18'755	26330	11	15'000	22'126	26410	8	21'894	0'608
26109	12	19'227	7'640	26183*	42	8'290	12'256	26257	8	1'122	18'425	26331	9	15'552	22'822	26411	17	0'198	1'563
26110	6	19'284	7'478	26184	16	8'305	12'120	26258	13	5'845	18'195	26332	13	19'754	22'951	26412	25	0'468	1'083
26111	18	22'143	7'141	26185	7	10'087	12'068	26259	7	7'705	18'155	26333	10	23'046	22'677	26413	16	0'890	1'451
26112	8	23'696	7'798	26186	10	10'680	12'475	26260	10	9'592	18'216	26334*	22	25'510	22'596	26414	15	1'317	1'308
26113	8	24'279	7'834	26187	12	15'041	12'122	26261	6	10'575	18'300	26335*	22	25'530	22'601	26415	20	1'645	1'500
26114	12	25'906	7'835	26188	10	16'790	12'876	26262	12	11'046	18'220	26336	12	10'516	23'711	26416	20	3'030	1'600
26115	12	0'020	8'310	26189	9	17'528	12'990	26263	10	11'394	18'791	26337	18	11'609	23'529	26417	13	8'979	1'375
26116	11	1'340	8'235	26190	14	17'786	12'337	26264	9	11'661	18'429	26338	11	11'844	23'633	26418	10	9'607	1'136
26117	8	2'162	8'843	26191	14	19'039	12'863	26265	15	14'159	18'433	26339	12	11'862	23'861	26419	10	12'124	1'763
26118	17	5'152	8'890	26192	14	19'186	12'126	26266	14	14'692	18'083	26340	7	15'144	23'651	26420	22	13'071	1'654
26119	12	7'953	8'010	26193	9	19'688	12'041	26267	12	14'885	18'354	26341	15	15'382	23'137	26421	11	13'192	1'093
26120	18	9'671	8'697	26194	8	21'375	12'751	26268*	25	19'846	18'492	26342	12	15'767	23'136	26422	20	13'241	1'112
26121	10	11'676	8'286	26195	12	21'397	12'943	26269*	19	20'600	18'293	26343	7	17'108	23'686	26423	8	13'370	1'996
26122	10	13'825	8'539	26196	10	22'300	12'872	26270	7	22'401	18'843	26344	10	19'236	23'831	26424	7	16'002	1'555
26123	8	15'639	8'731	26197	20	25'794	12'682	26271	10	24'839	18'271	26345	13	23'845	23'728	26425	19	16'115	1'095
26124	28	15'843	8'768	26198	8	3'498	13'895	26272	11	24'890	18'417	26346	9	23'951	23'052	26426	22	16'329	1'708
26125	8	16'826	8'258	26199	6	6'832	13'001	26273	12	4'060	19'430	26347	29	24'975	23'824	26427	7	17'520	1'766
26126	10	18'105	8'420	26200	10	8'010	13'882	26274	13	6'742	19'354	26348	11	0'365	24'166	26428	11	18'400	1'153
26127	8	19'967	8'830	26201	10	8'025	13'060	26275	12	8'525	19'164	26349	8	3'291	24'053	26429*	30	18'406	1'326
26128	10	20'586	8'374	26202	7	8'380	13'520	26276	23	9'119	19'390	26350*	30	5'351	24'515	26430	34	25'849	1'809
26129	12	20'774	8'294	26203	10	9'400	13'628	26277*	52	10'675	19'039	26351	8	6'985	24'131	26431	15	1'346	2'357
26130	13	22'322	8'307	26204	17	9'991	13'773	26278	12	15'283	19'164	26352	15	8'267	24'801	26432	12	2'426	2'212
26131	15	23'153	8'500	26205	10	12'846	13'084	26279	9	15'981	19'238	26353	10	9'209	24'689	26433*	38	4'835	2'225
26132	11	23'407	8'079	26206	10	17'780	13'431	26280	12	16'335	19'671	26354*	25	14'680	24'415	26434	12	5'883	2'418
26133	21	25'700	8'515	26207	17	17'903	13'067	26281	18	17'938	19'179	26355	12	20'399	24'327	26435	21	8'865	2'425
26134	17	0'040	9'896	26208	11	21'698	13'192	26282	12	18'030	19'738	26356	10	21'213	24'877	26436	13	8'920	2'115
26135	10	0'800	9'271	26209	7	23'839	13'629	26283	10	20'650	19'487	26357	10	21'639	24'345	26437	20	9'312	2'232
26136	12	1'409	9'942	26210	24	24'196	13'104	26284	9	20'851	19'161	26358	13	24'496	24'382	26438	8	13'276	2'006
26137	14	5'725	9'025	26211	7	24'698	13'703	26285	9	23'526	19'226	26359	10	1'448	25'695	26439	8	14'520	2'049
26138	11	6'780	9'338	26212	7	7'755	14'746	26286	8	24'006	19'232	26360	12	5'210	25'161	26440	9	14'730	2'057
26139	12	8'166	9'093	26213	13	11'755	14'368	26287	10	24'551	19'728	26361	7	8'246	25'765	26441	20	16'837	2'748
26140	9	8'635	9'262	26214	9	13'779	14'370	26288	15	0'054	20'006	26362	15	11'630	25'294	26442	10	17'682	2'831
26141	10	9'327	9'700	26215	9	18'914	14'847	26289*	18	1'200	20'941	26363	12	11'910	25'749	26443	14	19'131	2'836
26142	12	13'605	9'344	26216	11	19'620	14'120	26290*	26	3'955	20'737	26364	13	14'111	25'941	26444	7	19'615	2'850
26143	22	19'007	9'988	26217	10	23'528	14'103	26291	10	4'265	20'150	26365	12	15'120	25'253	26445	14	20'991	2'892
26144	13	19'039	9'463	26218	11	25'089	14'921	26292	14	14'422	20'458	26366	10	17'935	25'622	26446	10	22'165	2'130
26145	12	19'435	9'631	26219	13	25'263	14'781	26293	18	15'255	20'579	26367	9	18'473	25'914	26447	20	24'574	2'692
26146	11	22'560	9'965	26220	12	3'786	15'394	26294	6	18'287	20'520	26368	23	18'538	25'735	26448	17	24'976	2'798
26147	17	22'790	9'003	26221	12	7'000	15'309	26295	10	18'485	20'757	26369	9	21'805	25'782	26449	13	0'415	3'967
26148	7	24'223	9'669	26222	14	9'319	15'995	26296	6	18'588	20'565	26370	7	22'415	25'244	26450	9	3'414	3'869
26149	6	25'154	9'510	26223	10	10'205	15'886	26297	9	20'726	20'969	26371	7	22'941	25'135	26451	20	4'811	3'768
26150	9	2'304	10'988	26224	17	11'360	15'221	26298	8	21'350	20'433					26452	15	5'964	3'398
26151	12	2'504	10'308	26225	10	11'711	15'946	26299	10	24'041	20'110					26453	12	6'118	3'902
26152	11	5'099	10'122	26226	11	12'002	15'330	26300	9	24'165	20'478					26454	20	6'359	3'125
26153	20	7'332	10'648	26227	9	20'816	15'846	26301	15	24'746	20'347					26455	18	12'571	3'094
26154	13	7'767	10'191	26228	10	21'620	15'195	26302*	42	24'816	20'220					26456	9	15'186	3'591
26155	10	8'737	10'562	26229	10	21'784	15'539	26303	16	25'567	20'054					26457	12	18'007	3'992
26156	7	8'912	10'441	26230	10	2'970	16'521	26304	18	3'515	21'861					26458	9	18'335	3'220
26157	8	11'565	10'459	26231	10	8'865	16'512	26305	7	4'357	21'399					26459	7	18'403	3'270
26158	12	13'130	10'607	26232*	32	12'725	16'849	26306	10	5'529	21'420					26460	6	19'744	3'092
26159	10	14'275	10'213	26233	9	13'845	16'114	26307*	31	7'731	21'775					26461	6	19'821	3'863
26160	7	14'281	10'301	26234	10	14'314	16'020	26308	12	10'887	21'487					26462*	22	21'405	3'340
26161	12	22'429	10'293	26235	9	16'408	16'927	26309	15	14'336	21'650					26463	10	21'834	3'967
26162	10	22'598	10'417	26236	13	17'370	16'599	26310*	13	14'841	21'150					26464	10	22'339	3'338
26163	18	24'694	10'281	26237	10	21'510	16'544	26311*	30	16'486	21'156					26465*	22	22'386	3'506
26164	15	3'496	11'634	26238	6	22'367	16'934	26312	12	17'501	21'593					26466	22	24'125	3'661
26165	7	3'557	11'600	26239	19	24'883	16'310	26313	10	21'595	21'406					26467	24	3'548	4'800
26166	12	4'572	11'316	26240	7	25'646	16'039	263											

26478	8	4.828	5.783	26552*	41	23.272	9.527	26626	10	19.873	14.401	26700	8	22.623	19.260	26774	18	21.122	24.140
26479	6	6.431	5.133	26553	18	23.585	9.173	26627	8	22.151	14.699	26701	10	22.832	19.652	26775	10	21.253	24.775
26480	12	6.791	5.454	26554	8	24.605	9.738	26628	7	24.205	14.948	26702	23	23.331	19.334	26776	7	21.295	24.987
26481	9	6.858	5.015	26555	8	25.841	9.468	26629	10	25.852	14.899	26703	3	24.686	19.035	26777	20	25.079	24.339
26482	7	8.999	5.101	26556	19	0.407	10.640	26630	14	0.872	15.275	26704	11	0.410	20.093	26778*	48	2.410	25.844
26483	12	11.251	5.236	26557	22	3.149	10.782	26631	14	1.041	15.133	26705	19	0.615	20.707	26779	12	2.873	25.238
26484	13	13.185	5.726	26558	10	4.151	10.032	26632	9	7.857	15.526	26706*	46	0.681	20.579	26780	9	6.824	25.181
26485	6	13.254	5.949	26559	14	8.623	10.262	26633	19	9.043	15.936	26707	20	1.427	20.403	26781	9	10.043	25.598
26486	7	17.667	5.522	26560	6	12.308	10.113	26634	5	9.215	15.326	26708	12	2.732	20.861	26782*	40	11.005	25.469
26487	6	18.134	5.756	26561	21	12.482	10.398	26635	6	10.667	15.043	26709	20	3.557	20.105	26783	18	12.458	25.400
26488	12	18.966	5.807	26562	8	13.806	10.113	26636	19	11.659	15.090	26710	9	4.855	20.037	26784	9	17.983	25.010
26489	10	20.290	5.898	26563	14	17.118	10.297	26637	9	13.965	15.299	26711	28	5.415	20.489	26785	8	18.413	25.105
26490	20	21.197	5.511	26564	11	19.907	10.131	26638	8	17.744	15.451	26712	8	9.144	20.024	26786	6	19.961	25.130
26491	28	25.029	5.789	26565	10	21.757	10.464	26639	9	21.495	15.797	26713	8	11.612	20.293	26787*	40	21.420	25.494
26492	17	1.042	6.016	26566	8	23.875	10.935	26640	7	23.807	15.102	26714	13	11.766	20.416	26788	9	21.468	25.913
26493	21	3.672	6.792	26567	12	1.311	11.757	26641	7	24.154	15.268	26715	7	13.245	20.114				
26494	7	8.030	6.412	26568	12	12.181	11.234	26642	20	0.690	16.669	26716	6	15.014	20.702				
26495*	29	8.567	6.405	26569	15	12.934	11.285	26643	7	1.445	16.388	26717	5	16.686	20.652				
26496	20	8.865	6.157	26570	6	13.363	11.265	26644	20	2.375	16.366	26718	16	18.150	20.817				
26497	6	11.470	6.960	26571	8	15.636	11.533	26645	8	5.798	16.776	26719	18	19.643	20.574				
26498	27	12.121	6.346	26572	10	16.350	11.838	26646	8	7.998	16.721	26720	6	19.875	20.522				
26499	6	13.148	6.527	26573	8	17.281	11.130	26647*	68	9.086	16.568	26721*	28	20.286	20.300				
26500	25	13.282	6.525	26574	22	20.311	11.674	26648	10	11.212	16.062	26722	18	22.413	20.984				
26501	8	17.219	6.771	26575	22	1.994	12.763	26649	13	11.292	16.763	26723	14	24.645	20.992				
26502	8	17.263	6.112	26576	18	3.804	12.337	26650	5	14.967	16.327	26724	9	25.532	20.661				
26503	20	17.469	6.861	26577	9	6.597	12.594	26651	15	17.358	16.361	26725	13	25.708	20.720				
26504	9	18.070	6.641	26578	9	7.445	12.125	26652	20	20.784	16.143	26726	10	25.757	20.988				
26505	19	19.596	6.690	26579	18	7.789	12.390	26653	16	20.928	16.535	26727	18	0.626	21.369				
26506	9	2.330	7.455	26580	8	8.558	12.509	26654	10	21.100	16.952	26728*	58	1.161	21.509				
26507	14	4.267	7.806	26581	8	11.776	12.995	26655*	20	22.974	16.979	26729	20	3.348	21.825				
26508	7	4.639	7.682	26582	7	11.854	12.108	26656	6	23.588	16.702	26730	9	5.433	21.385				
26509	9	4.927	7.284	26583	20	12.407	12.912	26657*	32	25.211	16.642	26731	6	10.620	21.664				
26510	10	8.311	7.441	26584	20	13.011	12.208	26658*	70	25.411	16.365	26732	6	12.434	21.863				
26511	10	10.421	7.542	26585	22	13.173	12.713	26659	12	3.937	17.211	26733	13	14.989	21.860				
26512	22	17.313	7.912	26586	11	15.706	12.381	26660	20	4.255	17.675	26734	10	18.054	21.600				
26513	13	17.576	7.416	26587	6	16.016	12.486	26661	8	5.183	17.594	26735	6	18.146	21.651				
26514	8	17.601	7.169	26588	8	16.821	12.748	26662	10	7.316	17.759	26736	12	0.952	22.088				
26515	10	18.407	7.062	26589	8	20.554	12.747	26663	6	7.846	17.550	26737*	30	1.410	22.947				
26516	8	18.944	7.258	26590	22	21.376	12.147	26664	18	9.762	17.483	26738*	31	1.432	22.949				
26517	9	21.595	7.267	26591	22	22.436	12.814	26665	6	11.950	17.640	26739	21	2.999	22.110				
26518	6	22.289	7.367	26592	7	23.378	12.424	26666	7	13.439	17.461	26740	10	3.663	22.649				
26519	7	24.545	7.497	26593	16	23.896	12.597	26667	8	13.919	17.835	26741	13	5.710	22.640				
26520	22	24.560	7.808	26594	7	24.184	12.922	26668	9	18.829	17.520	26742	9	6.194	22.504				
26521	11	24.736	7.570	26595	5	24.464	12.269	26669	9	18.984	17.575	26743	9	9.617	22.772				
26522	18	24.833	7.180	26596	30	25.183	12.042	26670	22	22.750	17.460	26744	8	10.004	22.594				
26523	24	1.386	8.861	26597	33	1.543	13.024	26671	16	22.913	17.715	26745	8	11.453	22.483				
26524	17	1.583	8.176	26598	18	2.215	13.287	26672	22	24.418	17.890	26746	21	12.466	22.238				
26525	12	7.507	8.705	26599	21	6.491	13.870	26673	12	24.711	17.336	26747	9	13.848	22.532				
26526	10	9.662	8.160	26600	6	6.848	13.056	26674	12	0.727	18.775	26748	8	19.405	22.514				
26527	28	9.964	8.331	26601	6	7.460	13.379	26675	12	2.012	18.863	26749	12	19.717	22.982				
26528	20	13.111	8.791	26602	12	8.035	13.452	26676	23	3.833	18.412	26750	12	3.606	23.353				
26529	9	14.589	8.074	26603	7	12.163	13.272	26677	8	5.011	18.795	26751*	29	4.734	23.450				
26530	5	17.217	8.098	26604	11	12.863	13.963	26678	8	6.384	18.711	26752	13	5.949	23.770				
26531*	37	17.423	8.252	26605	19	13.067	13.155	26679*	32	8.345	18.811	26753	14	6.064	23.486				
26532	7	19.788	8.291	26606	13	13.717	13.076	26680	8	9.251	18.991	26754	8	6.707	23.183				
26533	15	23.953	8.612	26607	12	14.457	13.080	26681	14	11.821	18.583	26755	14	7.819	23.355				
26534	7	24.587	8.602	26608	14	16.007	13.545	26682	26	13.623	18.538	26756	22	8.905	23.506				
26535	22	3.846	9.492	26609	12	16.342	13.257	26683	9	15.383	18.969	26757	6	9.904	23.272				
26536	8	4.255	9.066	26610	5	16.782	13.638	26684	8	16.250	18.190	26758	18	10.157	23.662				
26537	22	7.936	9.964	26611*	30	18.043	13.084	26685	20	20.887	18.003	26759	7	12.374	23.364				
26538	6	8.646	9.464	26612	8	19.149	13.742	26686	10	2.298	19.437	26760	7	18.748	23.231				
26539	6	11.500	9.522	26613	10	20.490	13.630	26687	13	2.436	19.695	26761	12	22.915	23.936				
26540	8	13.176	9.763	26614	17	20.698	13.375	26688	22	2.789	19.612	26762	20	24.452	23.370				
26541	8	13.912	9.298	26615	22	25.126	13.700	26689	28	2.870	19.671	26763	10	25.213	23.615				
26542	32	13.927	9.349	26616	9	25.558	13.254	26690	18	3.465	19.682	26764	22	25.725	23.962				
26543	5	14.114	9.274	26617	7	25.604	13.216	26691	11	5.040	19.397	26765	14	0.424	24.749				
26544	10	14.357	9.619	26618	13	25.965	13.699	26692	8	6.210	19.700	26766	44	0.895	24.179				
26545	10	17.168	9.296	26619	12	2.953	14.479	26693	5	8.351	19.676	26767	20	5.301	24.008				
26546	14	18.232	9.709	26620	21	4.562	14.281	26694	15	11.745	19.776	26768	12	9.093	24.54				

26837	8	15°024	3°373	26911	8	9°264	9°106	26985	10	11°495	14°622	27059	9	7°710	19°621	27133	11	3°638	25°557
26838	12	16°416	3°650	26912*	25	12°560	9°771	26986	15	13°416	14°168	27060	18	8°656	19°211	27134	12	4°789	25°214
26839	10	21°160	3°389	26913	21	12°608	9°399	26987	8	14°862	14°790	27061	6	12°699	19°118	27135	11	5°236	25°093
26840	11	21°178	3°812	26914	9	14°289	9°740	26988	18	16°391	14°901	27062*	21	12°806	19°220	27136	10	5°386	25°049
26841	9	22°661	3°693	26915	10	14°636	9°606	26989	6	16°580	14°760	27063	5	12°895	19°599	27137	10	6°459	25°938
26842	12	23°546	3°250	26916	11	15°224	9°837	26990	8	16°630	14°104	27064	7	14°914	19°732	27138	7	8°920	25°879
26843	6	3°375	4°400	26917	13	19°010	9°800	26991	22	18°020	14°200	27065	7	15°244	19°246	27139	13	13°383	25°102
26844	21	3°877	4°717	26918	10	21°861	9°563	26992	11	18°084	14°614	27066*	30	16°775	19°149	27140	14	14°506	25°688
26845	12	4°206	4°326	26919	18	24°607	9°885	26993	10	20°817	14°937	27067	18	17°467	19°042	27141	10	16°850	25°407
26846	18	8°894	4°812	26920	12	3°808	10°728	26994	9	22°088	14°138	27068	18	17°686	19°018	27142	10	20°603	25°381
26847	8	12°320	4°826	26921	18	4°468	10°920	26995	18	22°240	14°450	27069	11	21°341	19°530	27143	8	21°346	25°571
26848	6	13°137	4°450	26922	22	7°761	10°352	26996	8	22°447	14°719	27070	10	22°230	19°782	27144	14	25°620	25°039
26849	6	14°970	4°966	26923	12	8°349	10°430	26997	12	24°987	14°790	27071	7	23°471	19°717				
26850	19	15°011	4°880	26924	11	14°790	10°272	26998	14	25°237	14°636	27072	7	2°218	20°837				
26851	8	15°877	4°400	26925	7	15°912	10°114	26999	16	25°486	14°201	27073	11	2°399	20°891				
26852	12	18°234	4°630	26926	12	17°275	10°032	27000	9	25°828	14°901	27074	7	9°883	20°582				
26853	19	21°200	4°657	26927*	30	20°984	10°750	27001	8	2°453	15°064	27075	13	12°852	20°596				
26854	19	1°493	5°972	26928	11	21°022	10°705	27002	12	3°428	15°483	27076	14	13°214	20°189				
26855	8	2°650	5°594	26929	12	21°117	10°010	27003	9	10°745	15°499	27077	18	16°375	20°049				
26856	6	2°881	5°804	26930	18	21°333	10°949	27004	10	11°428	15°736	27078	11	22°726	20°705				
26857	6	9°390	5°501	26931	12	23°550	10°701	27005	7	12°023	15°090	27079	8	23°682	20°374				
26858	10	10°177	5°620	26932	12	23°739	10°848	27006	12	12°591	15°879	27080	14	24°451	20°777				
26859	10	11°172	5°331	26933	9	25°949	10°659	27007	12	12°926	15°082	27081*	17	24°931	20°040				
26860	8	12°486	5°418	26934	20	3°635	11°685	27008	7	13°896	15°749	27082	13	25°451	20°911				
26861	8	13°800	5°863	26935	16	4°603	11°422	27009	9	20°365	15°184	27083	14	1°338	21°175				
26862	7	13°830	5°115	26936	24	5°083	11°792	27010	12	24°472	15°484	27084	18	4°580	21°379				
26863	14	16°821	5°791	26937	15	5°422	11°735	27011*	21	1°841	16°820	27085	7	5°201	21°375				
26864	8	20°180	5°271	26938	6	10°808	11°956	27012*	53	2°034	16°540	27086	12	10°754	21°450				
26865	9	21°023	5°250	26939	6	13°349	11°020	27013	7	5°730	16°183	27087	9	11°476	21°953				
26866	6	21°201	5°078	26940	8	14°847	11°572	27014	10	5°836	16°875	27088	5	12°146	21°833				
26867	10	6°822	6°420	26941	21	17°470	11°421	27015*	54	8°241	16°451	27089	10	12°841	21°409				
26868	9	7°110	6°161	26942	12	21°741	11°902	27016	9	9°388	16°857	27090	7	15°125	21°382				
26869	12	7°114	6°640	26943	9	24°751	11°628	27017	9	10°711	16°629	27091	14	15°149	21°916				
26870	10	8°922	6°587	26944	10	0°460	12°794	27018	10	11°261	16°511	27092	12	15°709	21°341				
26871	9	11°011	6°052	26945	22	1°742	12°221	27019	6	20°035	16°810	27093	6	17°396	21°480				
26872	8	11°259	6°971	26946	16	5°065	12°574	27020	9	21°177	16°779	27094	15	18°063	21°728				
26873	20	12°151	6°216	26947	6	7°032	12°140	27021*	21	24°390	16°641	27095	6	18°389	21°474				
26874	18	12°542	6°765	26948	20	7°553	12°894	27022	10	1°350	17°520	27096	18	21°046	21°477				
26875	5	15°443	6°488	26949	11	7°562	12°932	27023	10	4°980	17°969	27097	10	21°241	21°429				
26876	6	16°232	6°556	26950	10	8°526	12°012	27024	10	5°438	17°427	27098	12	21°670	21°621				
26877	10	17°140	6°099	26951	5	9°074	12°891	27025	10	7°465	17°119	27099	10	23°043	21°989				
26878	7	18°541	6°477	26952	7	9°137	12°326	27026	17	7°725	17°391	27100	10	24°609	21°492				
26879	12	19°305	6°130	26953	10	11°086	12°240	27027	6	9°390	17°085	27101	11	25°056	21°856				
26880	13	23°249	6°560	26954	9	11°276	12°710	27028	10	10°609	17°624	27102	15	3°449	22°116				
26881	14	23°625	6°315	26955	6	11°935	12°111	27029	12	10°992	17°732	27103	13	3°945	22°193				
26882	12	1°051	7°997	26956	20	12°307	12°731	27030	6	13°141	17°679	27104	14	5°879	22°293				
26883	6	1°225	7°755	26957	21	14°366	12°808	27031	18	14°472	17°542	27105*	30	9°208	22°818				
26884	13	1°315	7°363	26958*	38	18°590	12°443	27032	11	15°699	17°270	27106	22	9°984	22°233				
26885	12	5°310	7°881	26959*	38	19°520	12°128	27033	12	16°258	17°487	27107	10	12°481	22°282				
26886	7	7°462	7°480	26960*	34	19°661	12°221	27034	14	17°000	17°550	27108	18	16°240	22°203				
26887	7	7°733	7°726	26961	12	20°661	12°696	27035*	33	17°498	17°785	27109	9	16°669	22°551				
26888	11	12°000	7°147	26962	8	20°701	12°295	27036	10	17°595	17°048	27110	12	18°621	22°690				
26889	12	24°470	7°407	26963	12	21°565	12°491	27037	21	17°635	17°220	27111	7	18°811	22°085				
26890	14	24°888	7°423	26964	15	21°927	12°411	27038	12	18°513	17°440	27112	12	21°021	22°165				
26891	17	25°031	7°640	26965	9	21°967	12°070	27039	11	19°815	17°013	27113	11	21°676	22°772				
26892	9	0°458	8°810	26966	12	24°052	12°309	27040	12	23°900	17°649	27114	14	1°181	23°559				
26893	8	5°331	8°016	26967	12	1°710	13°880	27041	15	24°655	17°471	27115	9	7°304	23°619				
26894*	35	5°815	8°218	26968	7	2°135	13°427	27042	7	25°940	17°693	27116	8	7°761	23°303				
26895	10	9°463	8°832	26969	6	2°177	13°388	27043	14	1°063	18°079	27117	10	12°290	23°239				
26896	10	10°119	8°809	26970	11	2°549	13°865	27044	13	4°474	18°100	27118	10	14°024	23°881				
26897	10	11°985	8°569	26971	6	3°918	13°514	27045	22	5°087	18°721	27119	6	15°909	23°379				
26898*	30	12°347	8°176	26972	10	5°091	13°105	27046	11	6°408	18°813	27120	13	19°460	23°543				
26899	8	12°701	8°104	26973	14	7°880	13°628	27047*	21	7°986	18°760	27121	8	22°211	23°361				
26900	6	13°849	8°770	26974	19	8°289	13°000	27048	18	11°105	18°206	27122	9	23°570	23°061				
26901	10	15°070	8°554	26975	13	8°492	13°666	27049	6	11°221	18°413	27123	11	24°489	23°028				
26902	10	17°285	8°911	26976	10	12°062	13°574	27050	10	15°244	18°141	27124*	21	25°479	23°675				
26903	10	20°425	8°775	26977	21	13°594	13°630	27051	12	15°330	18°201	27125	17	1°825	24°518				
26904	6	20°988	8°867	26978	9	14°240	13°738	27052	13	20°749	18°882	27126	20	2°461	24°128				
26905	14	22°218	8°930	26979	19	22°338	13°145	27053	20	24°442	18°920	27127	8	5°164	24°429				
26906																			

27240	12	18°057	2°031	27314	12	2°855	7°054	27388	10	19°467	11°561	27462	11	12°873	15°716	27536	12	11°425	18°105
27241	11	18°889	2°282	27315	10	9°851	7°231	27389	9	19°826	11°709	27463	11	14°880	15°559	27537	12	11°793	18°610
27242	10	23°340	2°970	27316	13	12°066	7°550	27390*	24	20°350	11°576	27464	12	15°156	15°239	27538	11	13°650	18°185
27243	12	23°441	2°921	27317	10	13°400	7°505	27391	10	21°484	11°935	27465	18	15°711	15°059	27539	10	15°768	18°032
27244	12	24°136	2°852	27318	10	13°528	7°184	27392*	22	22°429	11°718	27466	16	16°291	15°714	27540	11	16°819	18°172
27245	10	4°650	3°039	27319*	20	21°371	7°615	27393	10	23°466	11°152	27467	10	16°325	15°244	27541	9	18°597	18°417
27246	12	5°521	3°844	27320	12	21°716	7°269	27394	13	25°337	11°409	27468	11	17°424	15°328	27542	9	18°936	18°859
27247	19	5°538	3°095	27321	10	22°669	7°785	27395	22	0°169	12°346	27469	11	18°475	15°305	27543	16	20°020	18°602
27248	11	6°171	3°139	27322	30	2°464	8°175	27396	10	3°418	12°150	27470	12	18°720	15°526	27544	11	20°201	18°276
27249	10	6°913	3°320	27323	21	8°045	8°059	27397	9	5°643	12°800	27471	9	21°664	15°351	27545	9	20°264	18°337
27250	11	8°881	3°016	27324	10	8°260	8°435	27398	12	5°731	12°433	27472	11	22°680	15°744	27546	11	21°645	18°459
27251	9	10°184	3°954	27325	9	9°700	8°159	27399	12	5°866	12°503	27473	12	24°351	15°069	27547	12	3°081	19°804
27252	18	10°338	3°716	27326	9	12°369	8°972	27400	10	7°550	12°969	27474	12	24°766	15°992	27548	9	6°130	19°319
27253	11	11°624	3°495	27327	22	12°844	8°808	27401	12	9°141	12°327	27475*	31	0°602	16°672	27549	10	6°530	19°971
27254	9	12°654	3°648	27328	20	14°663	8°951	27402	12	10°825	12°642	27476*	21	2°389	16°075	27550	8	12°068	19°908
27255	9	14°611	3°900	27329	10	15°135	8°991	27403	10	10°956	12°195	27477*	30	2°395	16°300	27551	10	12°119	19°752
27256	8	15°431	3°568	27330	12	18°421	8°805	27404	10	11°159	12°890	27478	12	3°042	16°446	27552	12	14°278	19°653
27257	12	17°375	3°864	27331	10	19°449	8°644	27405	16	11°246	12°142	27479	10	5°400	16°786	27553	10	15°227	19°180
27258	20	18°561	3°011	27332	11	20°685	8°752	27406	10	11°909	12°997	27480	10	5°401	16°806	27554	8	17°793	19°969
27259	10	19°084	3°463	27333	10	20°826	8°731	27407	12	13°255	12°975	27481*	29	6°325	16°391	27555	9	18°036	19°811
27260	10	19°546	3°153	27334	10	20°940	8°360	27408	10	19°401	12°870	27482	13	7°094	16°991	27556*	31	21°208	19°577
27261	9	19°570	3°749	27335	19	24°081	8°106	27409*	22	20°988	12°111	27483	12	9°792	16°630	27557	7	22°567	19°351
27262	11	21°626	3°082	27336	12	24°361	8°412	27410	11	21°816	12°496	27484	12	10°610	16°256	27558	10	25°002	19°707
27263	10	24°971	3°567	27337	22	0°672	9°910	27411	16	22°085	12°616	27485	10	10°661	16°680	27559	22	0°754	20°805
27264	11	2°683	4°687	27338	9	3°332	9°489	27412	13	22°946	12°685	27486	12	10°870	16°266	27560*	20	1°215	20°060
27265	13	4°533	4°468	27339	20	4°953	9°507	27413	12	23°331	12°102	27487	8	11°135	16°601	27561	20	1°753	20°917
27266	10	4°952	4°856	27340	16	7°476	9°878	27414	7	24°730	12°875	27488	21	11°201	16°556	27562	14	4°271	20°941
27267*	23	6°211	4°320	27341	10	8°775	9°936	27415	18	1°409	13°189	27489	20	11°542	16°457	27563	11	4°883	20°152
27268	13	6°521	4°974	27342	11	10°617	9°583	27416	22	6°528	13°910	27490	12	12°785	16°474	27564	20	5°147	20°386
27269	12	7°915	4°622	27343	12	12°168	9°060	27417	8	8°871	13°146	27491*	30	14°601	16°753	27565	9	8°915	20°510
27270	10	9°833	4°404	27344	12	12°487	9°042	27418	16	12°871	13°294	27492	21	14°636	16°835	27566	14	10°235	20°686
27271	12	13°089	4°034	27345	10	12°764	9°721	27419	12	13°896	13°195	27493	20	14°640	16°763	27567*	20	11°402	20°272
27272	12	13°285	4°667	27346	9	13°770	9°060	27420	9	16°393	13°890	27494*	36	15°511	16°393	27568	12	11°894	20°249
27273	10	13°467	4°260	27347	18	16°434	9°326	27421	12	20°398	13°497	27495	12	17°014	16°745	27569	20	12°451	20°156
27274	10	15°455	4°529	27348	9	16°626	9°308	27422	9	22°670	13°975	27496	10	17°662	16°100	27570	10	13°254	20°966
27275	10	15°686	4°553	27349	12	19°230	9°526	27423	20	1°155	14°806	27497*	28	19°176	16°728	27571	11	13°461	20°741
27276	12	15°711	4°260	27350	20	22°190	9°598	27424	19	1°408	14°647	27498	10	20°026	16°103	27572	11	14°774	20°092
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27279	19	21°034	4°396	27353	11	23°365	9°272	27427	10	2°000	14°900	27501	9	20°754	16°020	27575	9	16°501	20°572
27280	9	24°435	4°307	27354	12	2°031	10°656	27428	13	5°640	14°526	27502	7	22°391	16°772	27576	19	18°065	20°541
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27282	12	2°737	5°169	27356	10	7°062	10°763	27430	11	7°582	14°260	27504	10	22°956	16°066	27578	10	19°332	20°286
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27290	7	13°449	5°085	27364	8	17°453	10°046	27438	13	17°129	14°457	27512	12	9°833	17°202	27586	22	7°191	21°787
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27293	7	19°567	5°896	27367*	48	20°085	10°857	27441	12	17°884	14°615	27515	10	10°802	17°843	27589	8	11°733	21°187
27294	10	2°027	6°882	27368	12	20°329	10°213	27442	11	19°593	14°380	27516	14	11°850	17°515	27590	12	13°100	21°393
27295	10	8°058	6°300	27369	12	22°730	10°582	27443	12	19°622	14°169	27517	10	12°103	17°098	27591	10	13°247	21°025
27296	10	8°554	6°186	27370	10	23°856	10°488	27444	10	19°982	14°169	27518	7	12°138	17°333	27592	9	13°492	21°281
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27298	10	10°782	6°354	27372	21	25°408	10°090	27446	10	20°900	14°975	27520	7	14°416	17°222	27594	12	14°392	21°076
27299	9	11°538	6°095	27373*	30	25°773	10°907	27447	12	23°160	14°740	27521	10	18°123	17°655	27595	13	14°582	21°605
27300	9	11°843	6°719	27374	11	25°895	10°215	27448	16	0°658	15°513	27522	20	18°277	17°585	27596	9	15°241	21°559
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27302	10	17°516	6°829	27376	12	1°374	11°739	2745											

27610	10	16°831	22°141					27757	12	9°362	3°446	27831	9	15°027	7°809	27905	8	23°315	12°964
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27615	14	21°935	22°824					27762	20	23°305	3°205	27836	22	25°077	7°076	27910	18	6°386	13°964
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27617	16	23°642	22°322					27764	9	24°179	3°615	27838	10	0°483	8°725	27912	10	10°071	13°559
27618	19	24°539	22°453					27765	14	6°212	4°677	27839*	30	2°810	8°111	27913	14	10°122	13°537
27619	20	0°836	23°058					27766	10	6°820	4°943	27840	20	5°455	8°439	27914	10	15°896	13°537
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27621	12	2°747	23°567					27768*	28	7°218	4°274	27842	10	8°360	8°482	27916	10	17°082	13°842
27622	12	5°938	23°348					27769	8	7°788	4°696	27843	8	8°992	8°573	27917	20	17°597	13°101
27623	12	8°531	23°587					27770	14	8°605	4°664	27844	9	9°604	8°602	27918*	28	20°705	13°962
27624	11	10°821	23°061					27771	9	8°613	4°490	27845	11	12°294	8°197	27919	10	21°839	13°923
27625	12	11°567	23°214					27772	10	11°909	4°799	27846	10	13°643	8°448	27920	8	24°747	13°363
27626	10	12°605	23°087					27773	17	15°525	4°510	27847	20	15°275	8°762	27921	8	25°882	13°856
27627	9	19°348	23°391					27774	8	18°676	4°424	27848	6	20°363	8°992	27922	8	2°299	14°583
27628	11	20°704	23°686					27775	12	19°164	4°083	27849	9	21°587	8°026	27923	11	3°538	14°981
27629	20	21°247	23°790					27776	9	19°395	4°895	27850	8	22°158	8°234	27924	10	8°560	14°297
27630	10	21°598	23°895					27777	12	22°931	4°744	27851	8	22°445	8°998	27925	12	11°549	14°494
27631*	20	24°350	23°244					27778	26	23°009	4°103	27852	10	25°806	8°567	27926	10	13°734	14°776
27632	27	2°280	24°899					27779	10	24°551	4°231	27853	9	2°935	9°303	27927	9	13°990	14°513
27633	12	4°829	24°491					27780*	28	3°360	5°257	27854	11	3°377	9°512	27928	22	14°414	14°000
27634	12	6°040	24°366					27781	8	3°997	5°316	27855	12	4°040	9°110	27929	9	15°891	14°051
27635	12	7°065	24°521					27782	12	5°413	5°888	27856	10	4°179	9°411	27930	8	16°024	14°696
27636	13	7°524	24°846					27783	12	5°792	5°245	27857	12	4°423	9°646	27931	10	20°708	14°855
27637	12	8°356	24°508					27784	23	6°668	5°590	27858	10	4°707	9°770	27932	9	20°764	14°883
27638	10	10°878	24°152					27785	7	9°117	5°296	27859	9	4°927	9°872	27933	8	22°178	14°634
27639	12	11°301	24°961					27786	9	10°915	5°605	27860	12	5°509	9°971	27934	17	24°737	14°862
27640	11	11°810	24°835					27787	9	11°088	5°475	27861	8	6°978	9°343	27935	20	24°815	14°210
27641	9	15°209	24°639					27788	9	15°036	5°240	27862	9	10°143	9°140	27936	11	25°103	14°204
27642	19	15°810	24°696					27789	7	15°125	5°191	27863	13	10°509	9°243	27937	10	0°577	15°383
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27644	11	19°120	24°598					27791	13	16°414	5°740	27865	12	13°473	9°790	27939	10	4°812	15°357
27645	9	20°229	24°763					27792	8	16°615	5°214	27866	10	14°806	9°854	27940	8	5°572	15°734
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27648	13	21°187	24°148					27795	7	21°107	5°855	27869	6	17°040	9°973	27943	10	11°587	15°123
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27657	11	16°467	25°845					27804	8	4°223	6°722	27878	18	1°557	10°389	27952	11	25°228	15°445
27658	12	16°738	25°393					27805	19	8°486	6°051	27879	12	2°045	10°507	27953	12	1°007	16°300
27659	11	17°763	25°159					27806	17	9°732	6°611	27880	13	3°173	10°313	27954	7	3°714	16°246
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27663	12	23°962	25°486					27810	9	13°275	6°011	27884	12	10°212	10°899	27958	10	10°226	16°212
27664	13	24°856	25°097					27811	9	13°845	6°503	27885	9	10°457	10°648	27959	8	10°552	16°886
27665	16	25°535	25°725					27812	7	16°267	6°936	27886	9	19°458	10°727	27960	10	12°291	16°839
								27813	16	17°384	6°656	27887	8	19°735	10°427	27961	8	12°957	16°980
								27814	8	18°631	6°362	27888	9	23°653	10°617	27962*	40	13°033	16°914
								27815	20	18°823	6°003	27889	9	25°268	10°166	27963	10	14°815	16°421
								27816	8	21°085	6°541	27890	8	25°662	10°322	27964	18	14°916	16°025
								27817	11	21°373	6°771	27891	13	1°504	11°709	27965	9	18°202	16°186
								27818	21	22°083	6°507	27892*	21	1°936	11°202	27966	10	19°401	16°209
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								27820	9	4°202	7°351	27894	10	5°586	11°747	27968	9	21°830	16°294
								27821	13	6°249	7°431	27895*	24	5°885	11°730	27969	18	22°870	16°046
								27822	10	6°918	7°403	27896	20	5°922	11°785	27970	19	0°136	17°362
								27823	9	8°554	7°422	27897	10	10°518	11°333	27971	11	2°828	17°416
								27824	8	8°789	7°993	27898	10	13°670	11°716	27972	8	3°864	17°507
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								27828	9	10°399	7°466	27902	10	10°476	12°656	27976	17	5°801	17°351
								27829	8	10°588	7°429	27903	8						

27979	18	9°000	17°927	28053	10	18°123	21°174	28257*	32	16°110	3°961	28331	14	7°527	8°810
27980	8	9°624	17°458	28054	18	18°237	21°305	28258	10	17°246	3°802	28332	12	9°291	8°122
27981	10	11°099	17°389	28055	7	19°771	21°775	28259	21	22°035	3°311	28333	22	10°915	8°185
27982	8	11°212	17°913	28056	10	20°242	21°491	28260	13	24°600	3°099	28334*	40	13°372	8°647
27983	9	13°320	17°913	28057	23	20°911	21°789	28261	11	5°915	4°461	28335	11	15°219	8°856
27984	21	15°183	17°168	28058	10	22°171	21°185	28262	10	6°261	4°428	28336	12	18°685	8°098
27985	12	15°344	17°239	28059	8	22°401	21°593	28263	14	7°608	4°630	28337	9	20°380	8°959
27986	8	16°595	17°536	28060	17	0°880	22°766	28264*	40	10°890	4°215	28338	7	20°400	8°313
27987	10	17°677	17°061	28061	18	2°587	22°323	28265	22	14°168	4°725	28339	10	21°707	8°262
27988	9	24°074	17°957	28062	15	6°298	22°721	28266	10	16°251	4°895	28340	10	21°891	8°459
27989	9	25°021	17°460	28063	17	8°311	22°150	28267	11	18°239	4°757	28341	18	1°724	9°612
27990	11	25°635	17°842	28064	11	8°390	22°092	28268	15	20°175	4°068	28342	11	3°916	9°950
27991	8	25°825	17°385	28065	8	9°305	22°487	28269	10	20°230	4°935	28343	9	4°373	9°329
27992	12	4°558	18°060	28066	12	11°906	22°398	28270	10	22°140	4°830	28344	10	4°824	9°678
27993	21	6°032	18°977	28067	10	12°344	22°726	28271	15	25°351	4°905	28345	10	5°706	9°715
27994	10	7°901	18°248	28068	19	12°957	22°201	28272	14	25°454	4°455	28346	12	9°091	9°026
27995	9	12°206	18°809	28069	8	13°253	22°568	28273*	43	0°826	5°385	28347	11	9°856	9°925
27996	19	15°622	18°175	28070*	26	14°583	22°003	28274	18	1°910	5°994	28348	12	11°312	9°751
27997	7	17°668	18°875	28071	12	14°700	22°776	28275	21	6°880	5°605	28349	12	11°881	9°600
27998	11	17°678	18°816	28072	8	14°708	22°952	28276	12	7°201	5°065	28350	10	12°692	9°060
27999	28	19°230	18°833	28073	8	16°441	22°425	28277	10	7°881	5°815	28351	17	13°065	9°799
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28001	11	24°578	18°572	28075	9	22°460	22°505	28279	10	9°565	5°330	28353	13	19°086	9°935
28002	14	4°768	19°394	28076	11	23°053	22°250	28280	12	9°672	5°266	28354	9	22°496	9°225
28003	8	6°003	19°842	28077	12	23°634	22°049	28281	10	13°220	5°920	28355	12	25°581	9°606
28004	9	7°372	19°206	28078	10	25°397	22°762	28282	11	13°330	5°431	28356	12	1°379	10°258
28005	10	8°222	19°806	28079*	20	0°705	23°560	28283	10	15°065	5°638	28357	16	3°720	10°345
28006	10	10°463	19°703	28080	20	6°216	23°612	28284	11	17°700	5°756	28358	12	4°177	10°846
28007*	25	13°987	19°517	28081	10	11°576	23°592	28285	11	17°881	5°775	28359	11	6°573	10°920
28008	10	14°375	19°051	28082	24	17°161	23°835	28286	8	19°015	5°381	28360	10	7°343	10°965
28009	9	14°455	19°785	28083	9	17°800	23°442	28287	11	20°101	5°816	28361*	21	7°470	10°645
28010	8	18°526	19°379	28084	10	18°704	23°597	28288	15	23°182	5°793	28362*	51	8°840	10°929
28011	8	19°951	19°873	28085	10	20°577	23°778	28289	9	24°191	5°556	28363	11	11°855	10°561
28012	7	21°841	19°007	28086	12	20°913	23°673	28290	12	24°272	5°516	28364	10	12°390	10°415
28013	8	22°942	19°165	28087*	31	5°811	24°480	28291	8	4°230	6°673	28365	12	14°039	10°091
28014	10	23°196	19°579	28088	10	5°839	24°991	28292	10	5°199	6°349	28366*	12	14°506	10°598
28015	12	25°602	19°525	28089*	40	7°240	24°109	28293	12	5°320	6°350	28367*	18	14°875	10°062
28016	12	1°302	20°009	28090	12	13°200	24°835	28294	10	6°200	6°367	28368*	50	16°042	10°503
28017	17	3°445	20°613	28091	9	15°287	24°158	28295	10	10°863	6°759	28369	13	17°322	10°741
28018	8	3°870	20°092	28092	10	19°605	24°202	28296*	50	12°710	6°215	28370	10	22°716	10°935
28019	16	5°565	20°649	28093	12	25°978	24°111	28297	13	15°572	6°209	28371	8	23°981	10°400
28020	8	8°054	20°698	28094	15	0°349	25°806	28298	9	16°142	6°487	28372	10	25°655	10°515
28021	8	9°620	20°655	28095	13	1°235	25°404	28299	8	20°299	6°039	28373	20	0°256	11°472
28022	10	10°160	20°108	28096	20	4°674	25°975	28300	10	21°483	6°110	28374	10	4°189	11°572
28023	19	11°272	20°563	28097	12	11°601	25°918	28301	8	22°980	6°670	28375*	40	4°298	11°017
28024	8	14°064	20°543	28098	8	12°298	25°442	28302	12	23°840	6°916	28376	11	4°505	11°026
28025	9	16°966	20°018	28099	10	13°484	25°327	28303	40	1°121	7°173	28377	12	4°595	11°365
28026	9	20°476	20°656	28100	9	18°434	25°700	28304	12	3°180	7°117	28378	13	11°673	11°712
28027	22	21°171	20°228	28101	10	18°608	25°494	28305	13	3°391	7°531	28379	10	12°795	11°304
28028	10	21°230	20°894	28102	38	18°630	25°980	28306	12	3°621	7°199	28380	10	14°450	11°913
28029	20	22°011	20°648	28103	11	18°739	25°422	28307	10	4°570	7°510	28381	11	15°191	11°460
28030	16	22°648	20°622	28104	20	19°028	25°917	28308	13	4°900	7°578	28382	12	17°522	11°945
28031	12	23°090	20°453	28105	10	19°725	25°858	28309	22	6°271	7°925	28383	9	18°976	11°655
28032	10	23°151	20°869	28106	12	21°759	25°594	28310	10	9°238	7°823	28384	12	19°415	11°997
28033*	26	24°300	20°473	28107	10	23°327	25°006	28311	8	9°484	7°224	28385	9	21°690	11°860
28034	13	24°661	20°821	28108	12	23°715	25°927	28312	20	9°925	7°146	28386	13	22°230	11°896
28035*	23	1°805	21°467	28109	13	23°906	25°671	28313	15	11°912	7°603	28387	10	23°285	11°287
28036*	30	2°600	21°635	28110	14	24°104	25°918	28314	12	12°221	7°725	28388	13	23°685	11°284
28037*	24	2°972	21°113	28111	14	25°872	25°988	28315*	25	12°330	7°301	28389*	23	23°974	11°756
28038	12	3°384	21°735					28316	24	14°858	7°117	28390	21	24°042	11°765
28039	12	3°386	21°355					28317	12	17°360	7°304	28391	8	25°250	11°390
28040	11	4°709	21°952					28318							

28405	10	23°31'3	12°02'5	28479	12	11°6'22	17°45'3	28553	12	14°0'82	22°6'70	28757	11	4°5'23	3°0'50
28406	8	24°4'90	12°5'86	28480	10	12°8'65	17°6'67	28554*	55	14°1'86	22°6'92	28758*	20	5°0'45	3°1'00
28407	11	0°9'20	13°4'65	28481	12	13°2'31	17°0'76	28555	12	16°8'23	22°5'05	28759	9	5°5'31	3°1'09
28408	22	2°2'56	13°5'71	28482	10	16°6'56	17°6'40	28556	9	17°0'65	22°5'16	28760	10	6°6'99	3°4'01
28409*	31	2°9'21	13°1'92	28483*	31	19°0'65	17°4'90	28557	8	17°7'32	22°9'45	28761	9	7°4'41	3°6'67
28410	12	4°0'61	13°9'15	28484	10	19°2'80	17°7'05	28558*	23	19°1'40	22°3'17	28762	9	9°9'48	3°6'72
28411	11	5°7'84	13°3'31	28485	8	20°2'27	17°8'93	28559	21	19°8'10	22°5'55	28763	13	10°1'26	3°4'66
28412	12	6°8'61	13°3'23	28486	10	21°1'12	17°5'90	28560	10	21°2'94	22°0'10	28764	9	10°5'95	3°8'62
28413	12	7°4'82	13°0'11	28487*	25	22°9'07	17°8'94	28561	14	22°6'60	22°3'50	28765	12	11°6'53	3°6'29
28414	13	11°0'79	13°7'65	28488	12	23°1'68	17°4'71	28562*	29	22°6'76	22°3'91	28766	23	13°6'38	3°0'64
28415	10	12°4'50	13°9'57	28489	19	0°8'59	18°6'79	28563	10	24°7'65	22°6'21	28767	10	13°6'98	3°7'78
28416	10	13°6'27	13°3'93	28490	20	4°9'76	18°2'01	28564	11	25°8'99	22°3'46	28768	9	15°4'67	3°7'04
28417	11	17°8'69	13°4'68	28491	10	9°1'50	18°9'21	28565	21	3°3'16	23°3'52	28769	22	19°3'16	3°4'09
28418	12	21°7'90	13°7'56	28492	10	11°6'72	18°4'72	28566	17	4°6'04	23°3'13	28770	11	20°9'02	3°4'48
28419	12	21°8'52	13°9'24	28493	12	17°3'78	18°0'79	28567	10	6°4'96	23°5'20	28771	18	23°5'19	3°2'00
28420	15	23°3'10	13°9'23	28494	10	17°6'35	18°7'92	28568	9	9°3'66	23°4'20	28772	21	24°6'00	3°3'26
28421	10	25°1'95	13°3'18	28495	9	20°4'88	18°8'35	28569	20	11°3'46	23°8'60	28773	10	24°9'72	3°6'17
28422	25	0°9'44	14°9'65	28496*	30	23°5'82	18°0'25	28570	8	13°4'40	23°0'36	28774	13	1°2'44	4°9'75
28423	28	1°0'06	14°3'09	28497	10	24°4'35	18°3'16	28571	11	13°6'00	23°3'76	28775	10	2°6'25	4°5'39
28424	12	1°2'95	14°2'99	28498	24	25°4'37	18°6'44	28572	10	19°3'35	23°8'57	28776	10	3°4'96	4°8'66
28425	10	3°2'73	14°3'95	28499	17	1°9'01	19°6'11	28573	9	19°3'37	23°9'20	28777	13	3°8'70	4°8'52
28426	12	3°9'45	14°4'79	28500	10	3°4'66	19°6'10	28574	12	20°5'40	23°8'20	28778	13	4°3'56	4°7'77
28427	9	6°6'85	14°9'50	28501	9	3°6'90	19°9'99	28575	11	21°6'28	23°4'78	28779	7	4°8'97	4°1'21
28428	12	8°8'77	14°4'37	28502	10	4°0'56	19°4'54	28576	26	22°4'86	23°8'15	28780	9	6°6'47	4°7'52
28429	14	10°2'06	14°4'73	28503	12	4°3'30	19°4'49	28577	13	25°9'58	23°7'00	28781	8	7°3'42	4°7'24
28430	15	11°7'07	14°2'25	28504	9	5°2'55	19°5'40	28578	20	2°3'69	24°1'88	28782	11	8°3'71	4°6'99
28431	11	13°1'51	14°5'11	28505	9	8°6'61	19°7'36	28579	12	4°4'29	24°9'91	28783	10	11°4'07	4°1'27
28432	12	15°5'31	14°8'72	28506	13	15°3'55	19°9'33	28580	27	4°5'42	24°4'66	28784	15	11°4'99	4°5'41
28433	13	16°3'14	14°6'95	28507	12	15°7'59	19°6'45	28581	10	5°6'21	24°3'84	28785	10	12°1'95	4°3'05
28434	12	17°6'30	14°3'16	28508	12	20°5'81	19°3'02	28582	11	11°6'89	24°4'13	28786	8	12°2'44	4°1'70
28435	10	21°0'95	14°9'61	28509*	23	23°6'81	19°6'15	28583	9	13°1'74	24°7'52	28787	20	12°5'05	4°2'93
28436	11	21°1'44	14°5'49	28510	12	24°8'49	19°6'95	28584	13	13°8'10	24°1'50	28788	10	13°3'10	4°6'06
28437*	30	21°7'94	14°0'27	28511*	50	0°6'22	20°5'85	28585	12	15°0'81	24°3'50	28789	10	14°8'47	4°8'01
28438	9	22°1'95	14°8'43	28512	21	0°9'91	20°9'25	28586	12	20°6'90	24°7'08	28790	8	16°4'60	4°9'39
28439	13	23°1'50	14°2'60	28513	11	5°6'81	20°8'41	28587	21	21°7'11	24°1'79	28791	22	18°0'02	4°8'48
28440	13	23°3'39	14°0'21	28514	12	7°7'05	20°9'80	28588	18	24°0'53	24°8'55	28792	18	18°4'59	4°0'76
28441	11	25°0'86	14°8'78	28515	11	10°5'35	20°4'24	28589	15	24°4'54	24°4'13	28793	8	18°7'34	4°6'70
28442	12	1°4'46	15°5'37	28516	11	10°8'56	20°3'96	28590	13	2°7'31	25°3'30	28794	9	18°7'39	4°7'20
28443	10	6°3'43	15°5'15	28517	11	11°3'95	20°8'55	28591	19	4°9'42	25°8'16	28795	9	19°6'83	4°7'39
28444	9	7°1'67	15°3'94	28518	9	12°2'80	20°7'31	28592	16	4°9'64	25°7'59	28796	10	20°1'84	4°7'95
28445	9	8°9'08	15°3'07	28519	21	12°9'10	20°2'70	28593	12	8°8'45	25°1'81	28797	20	0°1'76	5°6'06
28446	12	9°3'17	15°2'41	28520	12	15°0'45	20°4'87	28594	7	9°4'91	25°4'76	28798	7	5°6'49	5°2'35
28447	12	16°7'20	15°8'55	28521	13	16°7'43	20°4'96	28595	10	9°8'78	25°3'93	28799	10	6°3'35	5°5'82
28448	14	17°0'92	15°6'87	28522	9	19°6'55	20°5'80	28596	16	11°9'74	25°1'13	28800	8	6°8'38	5°6'58
28449	10	17°9'00	15°8'99	28523	8	21°3'10	20°0'50	28597	10	12°4'74	25°8'43	28801	8	10°7'71	5°4'11
28450	8	18°8'01	15°6'77	28524	10	21°7'55	20°4'70	28598	13	12°6'30	25°6'55	28802	8	12°2'60	5°3'14
28451*	40	23°5'10	15°4'24	28525	10	25°5'46	20°1'61	28599	11	13°5'74	25°7'03	28803	10	12°3'23	5°2'29
28452	10	23°5'91	15°4'62	28526	11	6°3'54	21°9'82	28600	10	15°0'54	25°0'25	28804	9	14°5'25	5°9'14
28453	13	5°3'59	16°8'16	28527	12	6°9'86	21°5'15	28601	10	16°2'75	25°7'30	28805	8	16°6'85	5°8'91
28454	12	8°8'95	16°9'42	28528	10	9°2'60	21°9'40	28602	13	21°4'08	25°4'40	28806	10	17°3'53	5°0'79
28455	13	10°5'69	16°3'99	28529	11	9°6'10	21°0'86	28603	18	23°0'10	25°3'35	28807	9	17°8'73	5°3'27
28456	10	12°1'20	16°1'37	28530	11	10°0'83	21°2'75	28604	14	23°9'16	25°7'33	28808	14	21°8'67	5°2'77
28457	15	12°7'40	16°3'70	28531	11	10°0'94	21°6'49	28605	15	25°3'21	25°7'78	28809	20	23°7'92	5°1'69
28458	10	14°0'20	16°0'67	28532	14	13°0'60	21°2'31					28810	12	24°7'60	5°3'88
28459	11	15°3'80	16°6'93	28533	9	16°9'30	21°2'85					28811	13	2°6'78	6°2'82
28460*	20	16°8'26	16°4'21	28534	10	17°3'13	21°2'30					28812	7	4°7'99	6°5'04
28461	10	17°1'25	16°9'60	28535	13	18°3'22	21°2'98					28813	10	7°0'95	6°6'98
28462	13	17°3'30	16°5'52	28536	17	21°1'13	21°6'41					28814	11	9°0'91	6°9'27
28463	10	19°8'75	16°9'27	28537	9	22°1'45	21°3'91					28815	8	9°4'76	6°3'85
28464	11	19°9'15	16°2'21	28538*	20	22°8'78	21°9'51					28816	13	12°3'58	6°8'33
28465	23	23°3'71	16°1'01	28539	20	23°3'83	21°5'33					28817	18	13°6'99	6°9'55
28466	11	25°5'24	16°2'21	28540*	21	23°8'44	21°5'00					28818	22	13°7'76	6°3'38
28467	9	25°5'80	16°7'10	28541	14	24°5'60	21°9'89					28819	8	15°3'38	6°7'47
28468	17	1°9'04	17°9'29	28542	12	25°4'79	21°2'81					28820	13	17°2'74	6°0'76
28469	11	2°0'80	17°4'65	28543	18	1°7'65	22°8'51					28821	11	18°0'54	6°6'40
28470*	30	3°0'93	17°4'99	28544	11	3°6'73	22°2'42					28822	11	18°6'98	6°0'14
28471	10	3°6'09	17°4'17	28545	20	4°2'19	22°4'17					28823	10	18°8'20	6°7'71
28472	8	3°8'80	17°9'28	28546	12	4°9'48	22°3'19					28824	11	22°7'07	6°2'37
28473	11	4°1'97	17°1'51	28547	15	5°0'07	22°8'58					28825*	32	23°7'89	6°9'47
28474	11	5°6'40	17°1'21	28548	8	7°0'84	22°3'04					28826	10	24°1'89	6°6'87
28475	7	6°8'14	17°7'89	28549	12	7°8'83	22°6'05					28827	23	0°3'99	7°9'98
28476	20	7°4'50	17°4'26	28550	11	8°8'57	22°3'60					28828	17	2°1'50	7°5'62
28477	8	9°3'50	17°0'80	28551	13	8°8'83	22°2'80					28829	9	4°3'11	7°9'23
28478	10	9°8'33	17°6'80	28552	11	12°9'56	22°7'69					28830	10	4°7'71	7°6'83

R. A. 9^h 36^m

Plate 1766; 1901 Apr. 1.

Provisional Constants.

A	B	C
-00031	+00723	-2685

D	E	F
-00711	-00042	-0113

Mag. = 15.6 - 1.25√d

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28831	9	4.839	7.975	28905	10	6.276	10.861	28979	9	24.084	13.297	29053	13	21.401	17.212	29127	10	21.927	21.059
28832	9	5.557	7.315	28906	11	7.212	10.471	28980	13	1.171	14.952	29054	12	25.834	17.578	29128	10	22.661	21.543
28833	7	5.810	7.074	28907	9	7.515	10.416	28981	14	3.037	14.955	29055	20	1.599	18.709	29129	24	23.319	21.371
28834	10	6.996	7.639	28908	10	12.138	10.748	28982	19	3.731	14.320	29056*	42	3.995	18.450	29130	20	0.789	22.068
28835	9	7.728	7.429	28909	12	13.257	10.384	28983	10	6.161	14.286	29057	9	5.212	18.768	29131	12	2.127	22.402
28836	9	10.824	7.482	28910	14	13.895	10.846	28984	11	6.345	14.844	29058	9	5.324	18.526	29132	18	6.834	22.469
28837*	31	11.135	7.592	28911	21	18.116	10.505	28985	9	8.266	14.123	29059	10	6.741	18.308	29133	21	9.736	22.900
28838	9	17.023	7.821	28912	10	18.685	10.202	28986	10	8.691	14.891	29060	10	8.816	18.399	29134	10	11.633	22.028
28839	13	18.200	7.549	28913	13	18.881	10.179	28987	11	9.197	14.921	29061	9	9.490	18.034	29135	10	12.576	22.939
28840	11	18.608	7.791	28914	9	19.561	10.066	28988	11	11.458	14.205	29062	10	10.377	18.217	29136	10	14.633	22.088
28841	15	21.631	7.439	28915	12	20.176	10.368	28989	12	11.743	14.450	29063	22	10.439	18.200	29137	8	16.534	22.251
28842	10	22.178	7.223	28916	12	20.332	10.309	28990	9	12.218	14.370	29064	9	13.713	18.213	29138	12	16.595	22.354
28843	12	22.579	7.127	28917	8	20.562	10.253	28991	9	17.530	14.199	29065	13	15.169	18.461	29139	19	16.756	22.805
28844	12	24.099	7.765	28918*	22	21.263	10.098	28992	11	17.580	14.207	29066	12	15.915	18.257	29140	9	17.136	22.988
28845	13	3.049	8.962	28919	9	24.477	10.816	28993*	22	18.331	14.911	29067	10	17.916	18.259	29141	9	18.081	22.971
28846	11	3.131	8.141	28920	11	24.600	10.974	28994	11	20.544	14.789	29068	11	23.409	18.382	29142	10	20.776	22.000
28847	21	3.243	8.371	28921	10	24.943	10.930	28995	10	21.563	14.380	29069	14	24.111	18.630	29143	9	20.779	22.019
28848	10	4.020	8.139	28922	9	25.122	10.102	28996	11	24.964	14.438	29070	11	24.902	18.801	29144	11	21.812	22.008
28849	10	6.088	8.312	28923	12	25.415	10.233	28997	11	25.559	14.068	29071	21	25.443	18.657	29145	9	23.888	22.887
28850	9	7.367	8.618	28924*	20	0.000	11.850	28998	9	2.442	15.569	29072	18	3.369	19.533	29146	17	24.730	22.107
28851	11	7.390	8.080	28925	16	0.069	11.862	28999	11	3.839	15.759	29073	22	3.758	19.958	29147	16	2.220	23.756
28852	10	8.051	8.659	28926	9	1.265	11.461	29000	10	5.048	15.483	29074	11	4.651	19.671	29148	22	5.021	23.312
28853	14	8.429	8.068	28927	12	3.662	11.131	29001	16	6.797	15.282	29075	10	4.939	19.598	29149	11	6.715	23.242
28854	10	8.586	8.536	28928	11	3.738	11.187	29002	8	9.276	15.386	29076	21	5.550	19.275	29150	18	8.311	23.046
28855	12	10.082	8.264	28929	10	4.456	11.696	29003	10	9.533	15.117	29077	10	5.854	19.353	29151	9	9.547	23.443
28856	10	10.921	8.050	28930	12	5.259	11.712	29004	8	10.843	15.832	29078	9	6.240	19.231	29152	10	10.947	23.269
28857	9	11.431	8.162	28931	10	5.311	11.979	29005	12	13.793	15.974	29079	12	7.944	19.291	29153	10	15.856	23.390
28858	11	12.670	8.408	28932	8	5.363	11.025	29006	12	15.584	15.400	29080	10	8.205	19.580	29154	8	15.902	23.891
28859	9	13.753	8.472	28933	13	6.028	11.506	29007	12	15.975	15.490	29081	9	9.751	19.712	29155	9	17.606	23.111
28860	9	14.411	8.818	28934	10	7.029	11.867	29008	12	16.192	15.451	29082	8	10.227	19.513	29156	12	18.019	23.784
28861*	28	16.676	8.718	28935	13	9.889	11.340	29009	10	16.331	15.705	29083	10	13.939	19.489	29157	10	18.892	23.432
28862	12	17.219	8.221	28936	9	11.399	11.350	29010	13	16.490	15.809	29084	10	15.075	19.159	29158	10	19.090	23.298
28863	8	19.380	8.059	28937	19	12.044	11.800	29011	10	17.639	15.671	29085	9	17.233	19.149	29159	9	19.870	23.869
28864	9	19.402	8.981	28938	11	12.049	11.494	29012	12	18.430	15.762	29086	9	19.576	19.801	29160	10	20.723	23.288
28865	11	21.082	8.800	28939	10	15.170	11.175	29013	10	20.484	15.674	29087	10	20.550	19.565	29161	10	20.835	23.403
28866	8	21.998	8.440	28940	10	15.362	11.332	29014	9	20.877	15.261	29088	8	21.455	19.811	29162	17	24.402	23.440
28867	10	23.192	8.640	28941	13	18.782	11.419	29015*	43	21.799	15.274	29089	22	21.873	19.279	29163	10	24.940	23.635
28868	9	24.615	8.159	28942	10	20.727	11.366	29016	10	22.080	15.750	29090	9	22.289	19.661	29164	32	25.191	23.638
28869	15	1.569	9.671	28943	9	22.826	11.490	29017	9	22.203	15.607	29091	10	23.445	19.102	29165	24	0.337	24.947
28870	17	2.196	9.912	28944	9	0.536	12.670	29018	10	24.191	15.240	29092	10	23.468	19.566	29166	18	3.335	24.015
28871	8	4.198	9.192	28945	12	4.115	12.261	29019*	32	24.600	15.580	29093	8	23.629	19.331	29167	12	8.239	24.846
28872	10	4.200	9.186	28946	12	4.742	12.543	29020	11	1.643	16.286	29094	10	5.438	20.016	29168	13	11.180	24.834
28873	12	4.253	9.186	28947	22	5.005	12.493	29021	10	1.703	16.771	29095	12	5.710	20.380	29169	9	12.100	24.045
28874	10	5.451	9.624	28948	12	5.413	12.380	29022	10	7.714	16.612	29096	10	5.752	20.212	29170	11	13.465	24.859
28875	13	6.025	9.642	28949	12	11.293	12.380	29023	12	8.925	16.520	29097	10	6.170	20.761	29171	9	15.035	24.044
28876	11	6.041	9.256	28950	10	12.105	12.161	29024*	22	10.521	16.042	29098	11	6.215	20.688	29172	10	18.899	24.503
28877	9	6.067	9.441	28951	10	13.326	12.625	29025	9	11.107	16.062	29099	12	7.323	20.146	29173	10	19.729	24.811
28878	10	9.500	9.953	28952	12	13.574	12.561	29026	12	11.536	16.827	29100	7	7.857	20.000	29174	9	19.750	24.450
28879	15	9.552	9.472	28953	11	13.585	12.762	29027	10	13.459	16.247	29101	15	8.902	20.320	29175	21	1.621	25.847
28880	10	16.345	9.580	28954	9	14.107	12.400	29028	10	16.260	16.319	29102	9	8.982	20.853	29176	14	2.888	25.237
28881	8	17.023	9.431	28955	16	14.702	12.028	29029	11	16.683	16.049	29103	18	9.630	20.582	29177	22	4.117	25.770
28882	7	17.501	9.966	28956	12	15.270	12.706	29030	11	19.376	16.080	29104	10	12.558	20.698	29178	17	5.100	25.838
28883	9	19.660	9.737	28957	10	16.431	12.108	29031	8	19.420	16.052	29105	11	15.170	20.814	29179	10	11.513	25.071
28884*	22	20.610	9.785	28958	10	17.251	12.750	29032	10	21.280	16.197	29106	10	16.947	20.670	29180	20	11.647	25.079
28885	7	22.674	9.205	28959	9	18.936	12.892	29033	10	21.740	16.022	29107	11	19.040	20.912	29181	8	13.601	25.262
28886	8	22.736	9.078	28960	12	20.514	12.715	29034	10	24.418	16.448	29108	8	19.998	20.252	29182	10	14.070	25.533
28887	10	23.039	9.769	28961	10	22.128	12.862	29035	10	24.441	16.397	29109	12	22.967	20.017	29183	10	14.859	25.866
28888	12	23.938	9.303	28962	10	23.669	12.264	29036	22	2.928	17.371	29110	13	24.124	20.426	29184	10	15.395	25.059
28889	9	24.290	9.433	28963	9	23.821	12.957	29037	10	3.830	17.553	29111*	22	0.061	21.597	29185	9	16.761	25.903
28890	10	24.331	9.254	28964	12	24.559	12.098	29038*	22	4.224	17.450	29112	11	1.692	21.344	29186	12	17.550	25.122
28891	11	25.126	9.668	28965	24	25.431	12.601	29039	10	5.105	17.582	29113	22	2.611	21.299	29187	9	17.640	25.665
28892	8	25.180	9.740	28966	19	1.252	13.388	29040	11	5.350	17.532	29114	9	3.169	21.632	29188	10	20.005	25.681
28893	14	25.378	9.231	28967	13	2.082	13.592	29041	10										

29553	12	16°055	23°041	29624	17	24°383	1°384	29698	9	15°716	6°536	29772	9	4°649	11°000	29846	13	19°104	15°167
29554	10	20°472	23°612	29625	12	25°478	1°625	29699	8	16°313	6°152	29773	8	7°835	11°947	29847	13	19°799	15°492
29555	9	21°323	23°632	29626	13	2°207	2°929	29700	10	18°848	6°358	29774	10	9°398	11°754	29848	8	19°877	15°627
29556	11	22°742	23°331	29627	11	6°186	2°000	29701	10	19°078	6°490	29775	13	10°360	11°892	29849	10	20°721	15°663
29557	13	23°333	23°438	29628	10	10°545	2°798	29702	10	19°115	6°543	29776	9	10°814	11°539	29850	10	21°119	15°230
29558	10	23°348	23°652	29629	12	14°062	2°237	29703	9	19°442	6°184	29777	12	11°599	11°777	29851	9	25°155	15°612
29559	10	4°594	24°697	29630	12	14°511	2°318	29704	10	23°400	6°919	29778	17	12°028	11°471	29852	10	25°491	15°879
29560	9	6°250	24°633	29631	12	18°711	2°011	29705	10	24°509	6°330	29779	9	12°888	11°807	29853	21	0°247	16°226
29561*	46	6°366	24°611	29632	11	19°716	2°958	29706	15	25°820	6°564	29780	12	13°084	11°318	29854	22	1°054	16°870
29562	20	6°991	24°251	29633	10	20°519	2°230	29707	35	0°536	7°591	29781	12	16°141	11°255	29855	16	1°205	16°441
29563	9	8°051	24°835	29634	8	20°928	2°207	29708	22	1°230	7°947	29782	13	17°345	11°414	29856	11	5°293	16°430
29564	18	9°326	24°430	29635*	15	21°422	2°784	29709	13	2°136	7°000	29783	10	18°051	11°019	29857	10	7°650	16°494
29565	8	10°410	24°457	29636	10	23°283	2°723	29710	9	3°439	7°653	29784	9	20°072	11°523	29858	8	7°795	16°521
29566	8	15°489	24°228	29637	12	23°827	2°228	29711	12	3°786	7°063	29785	13	21°384	11°138	29859	9	9°465	16°252
29567	9	15°826	24°501	29638	15	25°555	2°843	29712	9	5°486	7°996	29786	13	21°411	11°122	29860	10	9°826	16°928
29568	8	16°719	24°531	29639	19	1°827	3°456	29713	10	6°064	7°255	29787	9	21°440	11°065	29861	8	11°089	16°100
29569	9	17°217	24°689	29640	11	2°244	3°584	29714	12	10°127	7°008	29788	10	25°410	11°219	29862	11	11°626	16°808
29570*	25	21°549	24°181	29641	20	2°484	3°636	29715	7	11°659	7°952	29789	13	0°024	12°113	29863	11	11°821	16°138
29571	11	7°310	25°524	29642	15	2°595	3°012	29716	10	11°719	7°009	29790	9	7°208	12°368	29864	10	12°039	16°813
29572	20	7°511	25°610	29643	10	7°376	3°252	29717	10	11°893	7°072	29791	10	7°389	12°690	29865	8	13°209	16°273
29573	10	9°478	25°240	29644	12	7°726	3°772	29718	10	13°173	7°547	29792	11	11°106	12°916	29866	7	21°029	16°024
29574	10	10°549	25°898	29645	9	9°113	3°008	29719	10	15°858	7°683	29793	13	12°261	12°987	29867	8	21°248	16°044
29575	8	15°126	25°312	29646	9	11°325	3°678	29720	12	18°500	7°472	29794	11	13°279	12°385	29868	10	24°240	16°617
29576*	28	17°004	25°208	29647	12	12°871	3°724	29721	10	20°676	7°255	29795	9	15°150	12°438	29869*	42	25°750	16°956
29577	15	17°100	25°148	29648	10	13°974	3°157	29722	17	24°761	7°170	29796	12	16°259	12°539	29870	12	0°216	17°696
29578	8	18°618	25°664	29649	8	14°611	3°405	29723*	22	25°919	7°084	29797	22	16°764	12°443	29871	33	0°274	17°100
29579	9	22°341	25°556	29650	10	15°139	3°047	29724	11	2°818	8°724	29798	10	18°610	12°018	29872	12	2°968	17°731
29580	11	23°391	25°901	29651	13	15°867	3°530	29725	9	3°054	8°052	29799	9	20°943	12°717	29873	12	4°190	17°322
				29652	10	17°342	3°959	29726	22	3°806	8°251	29800	9	23°529	12°648	29874	8	4°222	17°005
				29653	10	21°252	3°180	29727	10	3°841	8°926	29801*	17	24°544	12°159	29875	9	4°756	17°844
				29654	12	22°531	3°547	29728	11	5°010	8°203	29802	10	24°821	12°076	29876	8	4°862	17°535
				29655	10	23°886	3°693	29729	15	7°620	8°048	29803	13	25°644	12°012	29877	12	5°003	17°589
				29656	13	23°933	3°439	29730	11	8°371	8°720	29804	26	1°614	13°879	29878	6	5°801	17°541
				29657	14	2°286	4°380	29731	8	9°826	8°974	29805	10	2°784	13°826	29879	11	6°002	17°520
				29658*	49	2°613	4°943	29732	8	12°748	8°629	29806	10	5°726	13°700	29880	12	13°380	17°640
				29659	13	3°424	4°117	29733	10	14°459	8°209	29807*	22	6°126	13°615	29881	12	14°371	17°593
				29660	12	4°691	4°874	29734	9	16°560	8°184	29808*	41	11°821	13°000	29882	8	15°265	17°557
				29661	9	4°917	4°973	29735	10	18°317	8°186	29809	10	12°753	13°792	29883	8	16°270	17°964
				29662	10	6°292	4°529	29736	10	18°665	8°345	29810	12	15°075	13°199	29884	10	16°713	17°079
				29663	13	7°578	4°136	29737	10	21°597	8°432	29811	12	15°746	13°231	29885	11	16°852	17°067
				29664	21	9°519	4°440	29738	22	23°640	8°163	29812	12	19°970	13°600	29886	12	17°406	17°967
				29665	19	11°324	4°580	29739	34	1°179	9°446	29813	10	21°518	13°231	29887	10	17°615	17°759
				29666	17	12°529	4°491	29740	14	2°840	9°755	29814	8	23°445	13°867	29888	8	19°716	17°051
				29667	12	14°066	4°300	29741	22	3°583	9°291	29815	14	25°540	13°587	29889	22	1°131	18°117
				29668	9	15°450	4°134	29742	9	4°726	9°341	29816	10	25°631	13°932	29890	17	4°460	18°164
				29669	10	16°397	4°080	29743	11	4°797	9°162	29817	35	0°000	14°649	29891	11	5°821	18°267
				29670	12	17°500	4°230	29744	7	4°971	9°860	29818	11	2°346	14°589	29892	13	6°592	18°142
				29671	10	17°770	4°172	29745	11	7°826	9°142	29819	12	3°157	14°253	29893	10	7°024	18°109
				29672	7	20°171	4°304	29746	9	13°482	9°083	29820	15	3°436	14°649	29894	10	9°304	18°534
				29673	13	21°289	4°673	29747	10	14°630	9°223	29821	12	3°995	14°727	29895	8	10°251	18°967
				29674	17	2°616	5°708	29748	12	14°866	9°877	29822	9	10°800	14°532	29896	11	12°217	18°549
				29675	9	3°780	5°174	29749	11	15°772	9°305	29823	12	13°550	14°838	29897	8	15°431	18°968
				29676	13	4°305	5°577	29750	11	18°161	9°229	29824	13	17°161	14°550	29898	10	15°469	18°850
				29677	10	5°139	5°553	29751	13	20°212	9°793	29825	10	18°095	14°821	29899	8	16°589	18°486
				29678	8	11°224	5°033	29752	10	20°343	9°494	29826	9	20°327	14°067	29900	11	18°440	18°462
				29679	17	14°629	5°390	29753	11	20°556	9°437	29827	10	21°954	14°786	29901	10	18°731	18°961
				29680	10	15°549	5°641	29754	9	20°697	9°387	29828	11	22°877	14°282	29902	13	18°914	18°898
				29681	6	18°148	5°632	29755	13	2°477	10°044	29829	12	0°953	15°920	29903	9	19°322	18°297
				29682	10	19°184	5°909	29756	11	3°301	10°638	29830	25	1°018	15°551	29904	10	20°329	18°853
				29683	10	20°005	5°298	29757	9	4°182	10°117	29831	10	2°103	15°583	29905	17	23°195	18°605
				29684	9	20°272	5°294	29758	8	4°716	10°887	29832	15	2°816	15°038	29906	17	1°075	19°074
				29685	11	24°325	5°538	29759	10	5°232	10°717	29833	13	3°611	15°073	29907	12	3°296	19°944
				29686	8	24°600	5°988	29760	11	5°965	10°700	29834	21	3°939	15°020	29908	41	5°285	19°399
				29687	12	25°081	5°983	29761	8	8°626	10°945	29835	10	8°172	15°592	29909*	12	5°515	19°879
				29688	30	0°420	6°410	29762*	13	10°238	10°560	29836	12	9°300	15°718	29910	8	5°811	19°174
				29689	8	3°144	6°228	29763	12	10°478	10°955	29837*	53	9°545	15°814	29911	11	6°265	19°202
				29690	22	5°863	6°436	29764	11	12°305	10°193	29838	10	11°500	15°459	29912	7	9°	

29920	13	18°17'0	19°7'62	29994	9	9°8'25	24°8'00	30121	9	22°9'20	1°9'85	30195	10	15°17'0	9°5'66	30269	21	17°4'03	16°0'66
29921	10	18°3'84	19°7'37	29995	9	10°5'45	24°8'79	30122	23	2°5'33	2°0'76	30196	9	17°4'42	9°7'43	30270	10	17°6'92	16°3'01
29922	7	19°6'32	19°8'01	29996	10	12°6'20	24°4'68	30123	8	4°4'73	2°7'69	30197	9	17°6'59	9°6'83	30271	9	18°6'89	16°3'61
29923	9	20°6'51	19°6'64	29997	9	12°8'61	24°4'81	30124	19	4°7'99	2°2'70	30198	12	20°9'91	9°7'76	30272	9	20°3'08	16°1'18
29924	10	25°3'01	19°6'62	29998	9	13°3'22	24°2'83	30125	12	5°8'49	2°3'11	30199	13	3°5'91	10°0'24	30273*	30	20°6'61	16°8'50
29925	22	0°9'03	20°4'20	29999	12	13°8'96	24°6'65	30126	9	10°2'40	2°0'42	30200	11	5°5'77	10°5'00	30274	10	20°7'55	16°0'16
29926	9	4°3'61	20°6'38	30000	10	14°3'40	24°1'52	30127*	22	10°7'60	2°7'26	30201	8	5°8'59	10°1'46	30275	12	23°4'13	16°7'05
29927	10	5°2'93	20°0'40	30001	9	14°9'51	24°0'79	30128	12	14°6'36	2°4'36	30202	9	7°0'28	10°1'81	30276	9	24°8'06	16°9'27
29928	10	6°8'98	20°2'20	30002	10	17°3'99	24°0'63	30129	12	16°2'01	2°0'24	30203	11	9°0'60	10°2'21	30277	10	24°9'99	16°5'27
29929	9	10°0'85	20°6'58	30003	9	17°8'41	24°6'63	30130	9	22°0'13	2°1'27	30204	11	10°4'85	10°2'99	30278	9	4°7'15	17°7'82
29930*	37	15°4'20	20°8'33	30004*	33	18°0'02	24°9'71	30131	12	4°3'58	3°2'49	30205	10	13°7'19	10°5'22	30279	10	4°8'25	17°4'33
29931	10	16°4'92	20°2'51	30005	10	18°2'00	24°3'16	30132	12	6°5'55	3°8'85	30206	23	17°6'94	10°9'08	30280	9	8°3'98	17°6'70
29932	8	17°0'23	20°1'90	30006	10	19°2'60	24°2'25	30133	12	9°3'81	3°7'85	30207	10	18°8'10	10°2'14	30281	10	10°0'60	17°9'36
29933	13	17°6'09	20°9'81	30007	9	19°8'19	24°0'58	30134	9	12°3'81	3°8'15	30208	12	19°4'30	10°2'66	30282	8	12°3'43	17°9'15
29934	8	18°4'53	20°7'06	30008	17	22°3'30	24°3'41	30135	10	13°8'12	3°6'49	30209	7	23°2'00	10°2'64	30283	20	17°6'81	17°3'98
29935	7	18°9'26	20°5'01	30009	12	23°6'00	24°7'09	30136	12	13°8'75	3°6'31	30210	12	25°4'53	10°6'11	30284	13	20°1'65	17°5'51
29936	10	19°9'56	20°1'88	30010	19	3°0'66	25°5'34	30137	10	16°3'01	3°8'42	30211	15	1°8'30	11°9'71	30285	7	20°5'65	17°2'31
29937	8	20°2'01	20°3'05	30011	23	5°3'05	25°7'90	30138	14	19°4'35	3°3'32	30212	19	2°8'60	11°0'56	30286	10	25°4'23	17°4'79
29938	11	24°3'99	20°3'58	30012	13	6°2'49	25°1'44	30139	20	20°2'25	3°9'71	30213	12	4°6'01	11°8'29	30287	8	25°4'69	17°4'99
29939	11	25°2'94	20°4'07	30013*	42	6°3'88	25°4'32	30140	7	20°3'21	3°9'91	30214	8	5°8'74	11°4'14	30288	10	5°2'35	18°7'61
29940	13	25°6'89	20°8'61	30014*	25	9°2'98	25°6'81	30141	10	21°0'42	3°7'42	30215	8	6°0'71	11°9'71	30289	14	5°4'35	18°7'15
29941	13	2°5'75	21°6'50	30015	11	9°5'96	25°4'69	30142	9	22°2'95	3°1'72	30216	9	6°8'35	11°1'35	30290	9	5°8'45	18°0'26
29942	12	3°2'63	21°3'84	30016	10	12°1'89	25°0'45	30143	11	22°5'42	3°7'27	30217	8	7°6'62	11°3'55	30291	8	6°0'53	18°0'32
29943	7	4°7'01	21°8'01	30017	10	14°3'15	25°5'18	30144	22	2°8'00	4°4'83	30218	10	12°9'39	11°8'42	30292	21	6°7'05	18°1'44
29944	19	4°8'85	21°2'20	30018	9	17°5'86	25°5'81	30145	10	5°2'61	4°4'67	30219	13	13°5'42	11°0'35	30293	10	6°8'93	18°4'89
29945	8	7°7'49	21°1'37	30019*	30	17°7'82	25°5'08	30146	9	6°2'08	4°9'27	30220	9	20°6'40	11°8'75	30294	15	7°1'94	18°6'85
29946	9	7°8'02	21°9'89	30020	9	18°2'00	25°2'48	30147*	40	9°7'11	4°1'19	30221	9	24°3'80	11°0'97	30295	12	8°1'71	18°6'59
29947	10	11°4'58	21°1'81	30021	10	19°6'87	25°6'31	30148	9	11°4'44	4°1'65	30222	11	24°3'81	11°1'55	30296	11	8°3'94	18°4'39
29948	10	14°4'35	21°7'52	30022	11	20°7'26	25°5'90	30149	10	11°5'46	4°4'21	30223*	40	24°8'68	11°8'35	30297	11	9°1'65	18°7'60
29949	22	15°4'55	21°6'05	30023	12	21°8'85	25°6'99	30150	17	11°5'49	4°4'29	30224*	30	0°7'35	12°1'40	30298	9	12°7'87	18°8'06
29950	7	16°6'91	21°9'48	30024	22	25°3'94	25°1'69	30151*	39	11°5'74	4°2'81	30225	11	2°3'56	12°0'39	30299	8	13°7'45	18°9'49
29951	10	18°1'00	21°2'97					30152	10	12°9'16	4°9'91	30226	10	5°9'75	12°8'30	30300	8	13°9'86	18°7'76
29952	8	19°6'24	21°8'50					30153	12	17°9'85	4°3'76	30227	11	9°0'08	12°6'38	30301*	25	14°9'56	18°4'92
29953	12	20°6'72	21°5'10					30154	12	20°3'31	4°0'00	30228	10	12°2'73	12°2'00	30302	12	15°5'59	18°4'65
29954	8	22°7'06	21°0'36					30155	22	1°1'50	5°9'50	30229	8	13°2'91	12°1'30	30303	12	16°8'74	18°0'26
29955*	28	22°5'38	21°5'46					30156	10	6°7'11	5°9'56	30230	9	17°2'79	12°2'24	30304	11	17°8'56	18°0'74
29956	13	24°4'25	21°1'67					30157*	33	9°4'22	5°4'86	30231	9	20°0'09	12°4'23	30305	9	18°7'30	18°1'80
29957	12	24°9'51	21°3'57					30158	8	11°9'86	5°4'00	30232	12	21°2'60	12°1'00	30306	8	24°5'52	18°9'50
29958	12	3°7'94	22°3'69					30159	10	18°3'29	5°6'76	30233	22	24°0'11	12°9'56	30307	9	24°6'31	18°3'15
29959	22	5°6'82	22°1'51					30160	9	20°8'51	5°2'11	30234	9	24°1'41	12°9'55	30308	8	25°2'04	18°1'40
29960	10	6°9'71	22°8'51					30161	12	1°9'00	6°5'16	30235	10	24°7'70	12°9'37	30309	23	25°5'30	18°6'66
29961	14	11°6'50	22°5'69					30162	14	4°3'20	6°4'08	30236	13	1°7'58	13°5'45	30310	11	5°6'68	19°3'45
29962	15	11°9'12	22°8'85					30163	9	11°9'67	6°9'02	30237	10	2°2'84	13°8'32	30311	8	9°0'06	19°8'50
29963	12	17°3'86	22°3'35					30164	11	12°1'37	6°7'30	30238	11	3°1'89	13°0'21	30312*	30	9°9'93	19°2'97
29964	10	17°8'50	22°1'64					30165	12	14°9'70	6°2'91	30239	12	4°1'20	13°6'47	30313	14	11°6'31	19°6'68
29965	9	21°2'38	22°6'33					30166	11	16°4'55	6°7'10	30240	9	8°9'71	13°0'02	30314	10	14°7'30	19°7'52
29966	12	21°6'64	22°9'20					30167	9	18°6'24	6°5'92	30241	10	11°7'45	13°9'13	30315	9	20°3'36	19°5'80
29967	10	6°1'51	23°5'04					30168	32	0°8'53	7°1'47	30242	9	16°2'69	13°1'47	30316	20	22°4'54	19°1'36
29968	11	6°4'39	23°2'67					30169*	29	2°0'10	7°0'36	30243	19	17°7'90	13°6'08	30317	8	22°6'47	19°8'00
29969	12	6°9'00	23°2'91					30170	12	6°8'58	7°3'13	30244	9	19°3'81	13°3'76	30318	11	0°7'50	20°3'39
29970	17	8°1'94	23°0'70					30171	20	6°8'91	7°2'89	30245	12	4°1'35	14°2'53	30319	12	5°6'36	20°0'12
29971	10	8°3'89	23°2'14					30172	9	7°4'21	7°4'87	30246	9	5°0'31	14°8'87	30320	11	8°5'51	20°6'95
29972	11	8°8'96	23°7'32					30173	10	14°0'18	7°5'49	30247	15	8°8'95	14°4'60	30321	14	17°0'58	20°2'96
29973	10	9°4'83	23°9'31					30174	20	14°4'98	7°6'00	30248	11	11°1'76	14°6'44	30322	10	19°2'15	20°4'15
29974	12	9°9'83	23°8'00					30175*	40	15°1'71	7°3'63	30249	20	15°0'77	14°8'57	30323	8	21°8'47	20°5'64
29975	8	10°8'47	23°8'66					30176	10	4°4'90	8°9'98	30250	11	16°5'99	14°9'74	30324	9	22°5'58	20°2'93
29976	9	11°7'05	23°5'51					30177	10	6°9'85	8°3'93	30251	12	18°5'07	14°9'76	30325	30	23°4'00	20°7'29
29977	9	12°1'62	23°2'27					30178	22	7°5'23	8°1'05	30252	9	21°0'47	14°1'34	30326	10	24°0'17	20°9'25
29978	9	12°5'14	23°7'05					30179	12	13°4'60	8°0'74	30253	17	21°6'42	14°7'75	30327	10	0°7'89	21°1'48
29979	10	13°5'15	23°9'85					30180	10	14°3'72	8°6'50	30254	22	24°4'46	14°3'76	30328	20	4°4'80	21°3'56
29980	10	13°9'64	23°3'64					30181	10	15°3'60	8°0'40	30255	10	3°4'65	15°9'48	30329	11	5°9'85	21°1'28
29981	8	15°5'42	23°5'18					30182	9	16°2'86	8°1'12	30256	8	6°7'86	15°1'60	30330	9	8°8'21	21°4'04
29982	10	15°6'40	23°1'12					30183	20	17°1'99	8°1'66	30257*	29	7°2'05	15°8'91	30331	8	10°7'12	21°2'51
29983	8	17°2'64	23°4'88					30											

30343	20	7.687	22.196	30404	18	12.398	0.381	30478	17	16.636	8.053	30552	6	9.783	16.721	30626	20	12.316	24.787
30344	8	10.450	22.202	30405	8	17.429	0.654	30479	12	24.105	8.949	30553	10	14.888	16.895	30627	28	14.398	24.444
30345	9	13.295	22.887	30406	9	20.447	0.567	30480	10	2.022	9.897	30554	13	1.409	17.502	30628*	25	21.146	24.897
30346	20	16.162	22.631	30407	11	11.579	1.005	30481	19	6.627	9.714	30555	13	10.024	17.006	30629	10	9.135	25.789
30347	7	16.862	22.468	30408	8	14.114	1.050	30482	20	7.630	9.389	30556	12	11.484	17.714	30630	8	11.999	25.336
30348	10	17.864	22.081	30409	14	14.223	1.724	30483	21	10.588	9.100	30557	9	17.141	17.433	30631	6	13.804	25.216
30349	9	19.471	22.796	30410	15	16.363	1.037	30484	19	11.126	9.387	30558	13	20.264	17.500	30632	20	14.662	25.096
30350	7	21.551	22.505	30411	9	16.449	1.256	30485	18	11.973	9.423	30559	9	23.815	17.598	30633	19	16.499	25.798
30351*	23	23.550	22.731	30412	15	18.513	1.862	30486	20	13.215	9.109	30560	8	24.618	17.154	30634	10	18.248	25.949
30352*	40	24.712	22.120	30413*	33	18.861	1.517	30487	35	15.712	9.254	30561	12	0.635	18.358	30635	9	18.615	25.853
30353	12	25.432	22.232	30414	26	3.834	2.307	30488	13	20.085	9.738	30562	20	1.543	18.688	30636	20	18.747	25.533
30354	15	0.057	23.557	30415	9	5.327	2.239	30489	12	21.571	9.744	30563	9	6.803	18.813	30637*	39	22.855	25.120
30355	19	2.141	23.422	30416	12	9.127	2.083	30490	20	23.692	9.643	30564	8	12.320	18.516				
30356	9	3.322	23.809	30417	28	9.190	2.076	30491	14	25.194	9.833	30565	11	12.821	18.537				
30357	10	9.949	23.314	30418	14	9.972	2.908	30492	15	1.280	10.637	30566	8	20.251	18.648				
30358	9	12.250	23.953	30419	9	13.954	2.296	30493	8	5.835	10.865	30567	7	21.457	18.530				
30359	8	15.021	23.731	30420	8	15.086	2.156	30494	14	6.355	10.402	30568	15	21.671	18.751				
30360*	28	17.378	23.439	30421	12	20.586	2.483	30495	22	7.571	10.320	30569*	27	22.756	18.720				
30361	9	19.080	23.225	30422	29	21.455	2.833	30496	8	23.919	10.285	30570	9	23.276	18.022				
30362	12	19.081	23.380	30423	12	21.671	2.474	30497	10	25.905	10.074	30571	27	24.490	18.241				
30363	11	20.397	23.461	30424	12	25.043	2.871	30498	15	0.215	11.146	30572	10	25.737	18.167				
30364	10	21.906	23.507	30425	10	2.593	3.333	30499*	32	0.721	11.875	30573	20	6.999	19.987				
30365	16	3.293	24.515	30426	20	5.536	3.566	30500	7	5.031	11.897	30574	18	7.254	19.039				
30366	20	4.046	24.860	30427	9	5.574	3.275	30501	28	6.103	11.503	30575	7	8.738	19.393				
30367	10	4.902	24.208	30428	13	6.235	3.038	30502	21	7.619	11.723	30576*	31	12.053	19.544				
30368	9	7.153	24.859	30429	7	6.628	3.903	30503	19	8.798	11.114	30577	9	13.568	19.212				
30369	14	7.857	24.311	30430	8	10.837	3.125	30504	9	8.917	11.087	30578	19	14.643	19.549				
30370	10	7.886	24.261	30431	10	21.643	3.667	30505	8	13.928	11.086	30579	7	19.063	19.795				
30371	10	7.961	24.798	30432*	40	22.064	3.058	30506*	69	14.094	11.665	30580	9	19.144	19.386				
30372	12	8.075	24.075	30433	9	24.212	3.798	30507	34	15.840	11.286	30581	9	20.721	19.777				
30373*	31	8.484	24.627	30434	20	14.947	4.396	30508	14	23.400	11.822	30582	18	22.205	19.526				
30374	7	9.439	24.060	30435	13	17.924	4.311	30509	20	25.783	11.861	30583	8	24.559	19.459				
30375	10	11.419	24.958	30436	28	18.511	4.304	30510	16	2.514	12.648	30584	9	0.084	20.984				
30376	10	13.838	24.840	30437	8	19.929	4.928	30511	7	4.777	12.747	30585	10	8.712	20.258				
30377	12	15.599	24.415	30438	8	21.605	4.536	30512	9	6.298	12.739	30586	29	9.865	20.770				
30378	12	17.130	24.726	30439	9	22.831	4.532	30513	6	8.457	12.052	30587	10	10.288	20.563				
30379	10	19.959	24.017	30440	12	22.956	4.151	30514*	30	8.846	12.317	30588	12	10.838	20.567				
30380	18	20.202	24.555	30441	9	23.819	4.307	30515*	50	13.869	12.988	30589	7	15.296	20.624				
30381	12	23.819	24.009	30442	10	2.538	5.159	30516	7	18.847	12.368	30590	7	16.215	20.433				
30382	12	25.658	24.572	30443	12	11.621	5.587	30517	22	20.153	12.607	30591	6	17.001	20.010				
30383	22	1.838	25.129	30444	7	11.621	5.211	30518	20	20.305	12.386	30592	14	17.932	20.110				
30384	14	6.137	25.080	30445	17	11.838	5.427	30519	9	21.512	12.923	30593	9	19.474	20.485				
30385*	22	7.219	25.189	30446	12	13.805	5.358	30520	8	21.929	12.053	30594	6	20.159	20.536				
30386	15	9.365	25.309	30447	9	14.309	5.665	30521	7	22.055	12.630	30595	12	20.341	20.391				
30387	11	9.631	25.582	30448	30	18.648	5.035	30522	19	24.365	12.626	30596	20	21.185	20.480				
30388	8	15.375	25.896	30449	7	19.639	5.147	30523	22	25.837	12.230	30597	18	23.305	20.505				
30389	10	18.481	25.535	30450*	38	22.076	5.319	30524	9	2.671	13.339	30598*	24	1.882	21.949				
30390*	18	18.941	25.645	30451	11	5.530	6.604	30525	12	4.152	13.124	30599	23	8.242	21.654				
30391	9	21.154	25.834	30452	19	5.848	6.306	30526	8	12.740	13.453	30600	17	10.536	21.106				
30392	11	23.999	25.292	30453	8	7.056	6.794	30527	6	14.355	13.798	30601	15	11.370	21.065				
				30454	20	16.135	6.393	30528	21	18.258	13.449	30602	10	11.385	21.481				
				30455	20	18.993	6.085	30529	8	20.595	13.072	30603	22	11.672	21.383				
				30456	6	19.916	6.348	30530	8	21.476	13.714	30604	22	12.716	21.978				
				30457	9	23.459	6.071	30531	9	24.064	13.655	30605	22	14.827	21.493				
				30458	21	25.204	6.337	30532	18	24.624	13.416	30606	10	20.885	21.752				
				30459	18	25.608	6.836	30533	20	0.358	14.423	30607	21	24.918	21.757				
				30460	6	3.156	7.186	30534	9	4.626	14.662	30608*	34	0.807	22.160				
				30461	8	9.230	7.575	30535	9	5.023	14.286	30609	8	11.027	22.375				
				30462*	30	10.079	7.991	30536	12	5.412	14.709	30610	6	14.779	22.189				
				30463	14	12.928	7.507	30537	7	5.736	14.646	30611	10	19.972	22.149				
				30464	7	13.693	7.269	30538	7	9.643	14.126	30612	28	20.760	22.240				
				30465	8	14.278	7.641	30539	8	10.566	14.124	30613	8	20.787	22.025				
				30466	19	16.132	7.882	30540	8	11.913	14.053	30614	22	23.291	22.235				
				30467	9	16.272	7.652	30541*	30	18.760	14.784	30615*	32	3.623	23.213				
				30468	9	17.131	7.215	30542	10	25.876	14.925	30616*	30	5.410	23.984				
				30469	22	18.557	7.364	30543*	25	8.112	15.965	30617	18	11.902	23.226				
				30470	8	18.635	7.234	30544	8	8.788	15.175	30618	31	12.016	23.997				
				30471	21	19.834	7.788	30545	12	9.780	15.550	30619	8	16.171	23.594				
				30472	28	23.265	7.149	30546	20	19.010	15.763	30620*	39	19.049	23.952				
				30473	7	23.967	7.459	30547*	39	21.755	15.455	30621	15	20.227	23.091				
				30474	12	25.022	7.746	30548	12	6.748	16.424	30622	12	3.333	24.776				
				30475*	69	2.487	8.407	30549*	26	8.020	16.548	30623	8	6.050	24.768				

30740	19	25°662	2°304	30814	11	7°902	7°571	30888	9	23°043	11°779	30962	9	9°745	16°237	31036	7	16°337	20°452
30741	9	2°393	3°488	30815	9	9°641	7°176	30889	10	24°853	11°559	30963	11	12°100	16°522	31037	8	17°968	20°491
30742	9	5°717	3°379	30816	11	9°797	7°267	30890	9	25°266	11°505	30964	10	12°395	16°081	31038	9	23°133	20°125
30743	12	8°168	3°256	30817	9	11°695	7°195	30891	19	2°120	12°311	30965	9	12°464	16°006	31039	9	24°047	20°490
30744	12	9°212	3°494	30818	19	14°276	7°736	30892	22	2°180	12°679	30966	10	13°358	16°723	31040	20	25°965	20°767
30745	9	9°415	3°877	30819	12	16°989	7°893	30893	11	2°381	12°699	30967	9	14°190	16°450	31041	10	3°531	21°278
30746	8	13°280	3°050	30820	11	18°750	7°011	30894	10	3°596	12°946	30968	18	15°624	16°641	31042	10	5°134	21°379
30747	11	13°573	3°990	30821	9	18°826	7°316	30895	8	7°925	12°073	30969	10	16°514	16°650	31043	9	6°300	21°844
30748	10	14°038	3°514	30822	9	19°101	7°651	30896	10	8°424	12°545	30970	10	17°053	16°320	31044	8	6°900	21°455
30749	9	16°665	3°340	30823	7	19°140	7°831	30897	9	10°759	12°032	30971*	38	21°839	16°935	31045	12	8°820	21°275
30750	8	19°810	3°259	30824	7	20°493	7°517	30898	12	11°429	12°165	30972	12	24°252	16°345	31046	9	11°621	21°360
30751	9	21°082	3°325	30825	9	21°338	7°299	30899	10	14°700	12°699	30973	9	25°816	16°000	31047	6	13°206	21°691
30752	10	21°618	3°309	30826	9	24°004	7°732	30900	12	17°203	12°622	30974	11	25°996	16°577	31048	10	13°339	21°936
30753	12	23°096	3°805	30827	16	1°285	8°211	30901	8	21°221	12°178	30975	11	1°055	17°625	31049	8	13°709	21°447
30754	20	24°521	3°275	30828	9	5°185	8°607	30902	10	21°343	12°107	30976*	27	2°481	17°621	31050	9	17°536	21°970
30755	12	24°931	3°788	30829	10	7°423	8°149	30903	10	22°781	12°243	30977	10	4°962	17°491	31051	9	19°441	21°944
30756	21	5°869	4°211	30830	9	11°345	8°450	30904	9	23°204	12°058	30978	11	5°422	17°082	31052	8	19°489	21°379
30757	12	10°040	4°126	30831	10	11°404	8°591	30905	9	23°280	12°942	30979	10	7°971	17°968	31053	9	19°954	21°210
30758	10	10°520	4°456	30832	12	12°955	8°014	30906	21	0°715	13°101	30980*	18	8°390	17°550	31054	7	21°446	21°869
30759	10	11°106	4°468	30833	20	16°381	8°316	30907	15	0°990	13°888	30981	8	8°951	17°131	31055	9	22°178	21°254
30760	8	13°850	4°682	30834	11	18°107	8°541	30908	13	2°690	13°236	30982	8	12°097	17°423	31056	10	24°338	21°085
30761	7	16°571	4°046	30835	12	19°382	8°415	30909	11	3°283	13°166	30983	7	12°468	17°935	31057	12	24°943	21°875
30762	8	18°913	4°781	30836	10	19°456	8°880	30910	10	6°040	13°412	30984*	27	14°688	17°489	31058	10	25°231	21°865
30763	7	19°079	4°245	30837	8	21°048	8°190	30911	10	6°357	13°775	30985	7	15°900	17°398	31059	31	1°438	22°221
30764	10	19°460	4°553	30838	9	24°983	8°647	30912	9	6°867	13°602	30986	9	15°951	17°542	31060	19	2°580	22°935
30765	13	24°743	4°600	30839	14	0°390	9°429	30913	10	8°551	13°708	30987	10	17°574	17°030	31061*	22	2°590	22°786
30766	12	4°533	5°418	30840	16	2°337	9°778	30914	10	8°752	13°695	30988	8	19°191	17°548	31062	12	5°143	22°656
30767	8	7°393	5°771	30841	12	2°389	9°075	30915	8	9°271	13°247	30989*	20	20°199	17°405	31063	10	8°495	22°835
30768	9	8°335	5°596	30842	19	3°878	9°885	30916	17	14°959	13°126	30990	6	21°066	17°459	31064	8	10°711	22°434
30769	19	9°736	5°563	30843	16	4°195	9°940	30917	8	16°631	13°534	30991	6	24°489	17°726	31065	10	13°629	22°970
30770	10	10°296	5°884	30844	20	5°123	9°531	30918	10	17°523	13°700	30992	11	24°626	17°252	31066	11	17°941	22°357
30771	8	11°046	5°002	30845	11	9°580	9°884	30919*	30	19°827	13°017	30993	10	25°114	17°031	31067	12	21°840	22°405
30772	12	11°167	5°226	30846	10	13°479	9°906	30920	6	24°356	13°953	30994	12	25°585	17°536	31068	10	22°373	22°593
30773	10	11°201	5°811	30847*	30	16°386	9°577	30921	17	0°437	14°137	30995	13	0°263	18°084	31069	11	22°405	22°960
30774	12	14°280	5°599	30848	11	17°267	9°841	30922	9	6°182	14°150	30996	30	0°949	18°714	31070	9	23°116	22°228
30775	9	14°974	5°995	30849	10	17°642	9°303	30923	16	8°285	14°759	30997	12	2°192	18°618	31071	15	2°243	23°943
30776	8	16°586	5°439	30850	11	18°346	9°213	30924	10	9°772	14°918	30998	11	4°732	18°686	31072	11	7°280	23°394
30777	9	16°913	5°365	30851	12	18°765	9°849	30925	11	11°307	14°975	30999	12	5°579	18°672	31073	12	8°365	23°511
30778	9	17°808	5°476	30852	10	18°939	9°240	30926	9	11°418	14°179	31000	8	7°428	18°320	31074	10	11°957	23°753
30779	10	18°891	5°392	30853	12	19°315	9°535	30927	12	12°170	14°851	31001	12	7°769	18°250	31075	10	12°216	23°260
30780	8	19°745	5°466	30854	9	19°604	9°336	30928	13	12°589	14°221	31002	10	9°737	18°872	31076	8	13°086	23°759
30781	10	19°821	5°474	30855	9	21°884	9°651	30929	13	12°602	14°275	31003	9	9°843	18°971	31077*	30	13°380	23°530
30782	9	21°703	5°700	30856	9	22°715	9°459	30930	8	14°167	14°592	31004	12	15°797	18°159	31078	9	13°510	23°049
30783	11	22°429	5°303	30857	14	22°740	9°720	30931	11	14°761	14°424	31005	10	17°238	18°976	31079	10	14°291	23°597
30784	19	23°480	5°280	30858	12	24°379	9°661	30932	11	18°384	14°353	31006	12	20°701	18°354	31080	11	14°521	23°485
30785	12	24°245	5°535	30859	12	24°500	9°935	30933	11	19°231	14°879	31007	12	21°045	18°553	31081	12	16°165	23°160
30786	10	25°072	5°039	30860	10	25°204	9°572	30934	8	19°711	14°021	31008	11	22°115	18°170	31082	9	17°207	23°489
30787	11	25°499	5°340	30861	10	25°226	9°020	30935	9	21°775	14°126	31009	17	1°039	19°934	31083*	24	17°240	23°678
30788	21	1°440	6°797	30862	9	25°602	9°292	30936	9	21°911	14°116	31010	10	2°129	19°642	31084	18	18°367	23°926
30789	19	3°113	6°508	30863	12	1°492	10°291	30937	12	22°241	14°490	31011	10	4°714	19°086	31085	10	19°697	23°752
30790*	28	4°070	6°288	30864	11	2°210	10°524	30938	8	23°530	14°927	31012	11	6°271	19°988	31086	10	20°636	23°660
30791	8	4°233	6°581	30865	13	2°602	10°266	30939	11	2°268	15°371	31013	20	6°640	19°195	31087	9	20°774	23°040
30792	10	5°368	6°651	30866	11	2°934	10°424	30940	9	3°037	15°625	31014	8	8°416	19°935	31088	10	23°326	23°179
30793	12	7°433	6°996	30867	11	6°561	10°486	30941	10	5°460	15°081	31015	8	10°872	19°753	31089	11	23°745	23°004
30794	11	7°532	6°407	30868	12	6°947	10°042	30942	11	5°664	15°486	31016	9	11°151	19°174	31090	12	23°891	23°421
30795	12	7°750	6°605	30869	8	7°312	10°321	30943	12	6°891	15°297	31017	7	11°257	19°765	31091	18	23°931	23°824
30796	7	9°764	6°015	30870	10	8°877	10°520	30944	20	8°528	15°037	31018	8	11°350	19°846	31092	14	3°699	24°650
30797	11	12°915	6°231	30871	10	10°232	10°624	30945	10	9°920	15°575	31019	10	13°315	19°537	31093	11	8°530	24°439
30798	17	13°863	6°890	30872*	19	11°699	10°702	30946	10	11°317	15°095	31020	9	13°440	19°154	31094	10	9°819	24°500
30799	9	15°102	6°457	30873	10	17°855	10°296	30947	12	11°670	15°269	31021	12	15°670	19°510	31095	8	10°444	24°985
30800	9	15°873	6°680	30874	12	19°351	10°825	30948	15	12°411	15°434	31022	13	16°635	19°061	31096	10	10°941	24°222
30801	12	17°025	6°389	30875	9	4°523	11°665	30949	10	13°950	15°410	31023	9	17°943	19°274	31097	7	11°681	24°177
30802	13	17°077	6°358	30876	8	5°034	11°772	30950	10	14°829	15°603	31024	8	18°779	19°965				

31110	9	21°788	24°080
31111	10	24°063	24°063
31112	9	24°977	24°047
31113	14	2°426	25°296
31114	12	5°232	25°912
31115	12	8°678	25°762
31116	10	9°598	25°730
31117	19	9°670	25°200
31118	10	12°030	25°698
31119	11	12°292	25°391
31120	10	12°699	25°657
31121	10	13°819	25°480
31122	9	14°240	25°300
31123	14	14°777	25°114
31124	9	16°517	25°620
31125	10	16°854	25°645
31126	9	17°892	25°509
31127*	30	21°286	25°690
31128	40	21°599	25°995
31129	13	21°939	25°730
31130	9	22°377	25°720

R. A. 10^h 30^m

Plate 1742; 1901 Mar. 25.

Provisional Constants.

A	B	C
-00069	+00377	-1140

D	E	F
-00446	-00037	+0079

Mag. = 15.8 - 1.25 $\sqrt{d}$

No.	d	x	y
31201	9	11°084	0°286
31202	9	15°085	0°490
31203	22	16°133	0°473
31204	7	17°027	0°698
31205	20	19°744	0°725
31206	11	25°550	0°438
31207	10	8°679	1°443
31208	7	18°845	1°418
31209	21	1°428	2°803
31210	10	1°776	2°468
31211	15	11°231	2°861
31212	12	12°220	2°377
31213	10	13°489	2°055
31214	13	14°535	2°057
31215	19	17°507	2°284
31216*	31	19°898	2°473
31217*	36	23°976	2°841
31218	22	0°645	3°452
31219	22	7°299	3°871
31220	12	7°983	3°325
31221	15	11°739	3°550
31222	10	11°947	3°492
31223	9	12°435	3°228
31224	8	19°903	3°732
31225*	26	21°957	3°367
31226	13	0°887	4°776
31227	14	6°916	4°005
31228	13	7°377	4°857
31229	10	10°416	4°613
31230	12	15°662	4°174

31231	23	15°934	4°048
31232	12	16°049	4°161
31233	10	16°288	4°400
31234	12	16°316	4°888
31235	10	20°084	4°033
31236	10	20°461	4°734
31237*	26	24°688	4°392
31238	22	3°361	5°454
31239*	25	9°720	5°662
31240	18	12°350	5°838
31241	9	16°898	5°170
31242	12	17°909	5°269
31243	10	19°175	5°617
31244	12	19°804	5°464
31245	10	20°268	5°313
31246	7	9°471	6°175
31247	12	14°739	6°601
31248	13	15°515	6°730
31249	7	23°157	6°131
31250	15	2°489	7°104
31251	10	6°110	7°812
31252	7	7°302	7°257
31253	10	10°170	7°722
31254	15	11°866	7°448
31255	10	12°030	7°615
31256	11	13°575	7°614
31257	10	14°511	7°538
31258	14	14°829	7°880
31259	10	20°661	7°932
31260	8	23°185	7°514
31261	18	24°200	7°651
31262	10	2°810	8°022
31263	14	4°880	8°072
31264	8	5°009	8°948
31265	8	5°957	8°206
31266	7	10°762	8°282
31267	10	12°176	8°008
31268	12	15°790	8°967
31269	18	17°650	8°130
31270	10	17°966	8°435
31271	12	0°586	9°843
31272	8	1°410	9°742
31273	11	2°535	9°958
31274	12	4°093	9°395
31275	16	8°019	9°597
31276	7	11°610	9°598
31277*	22	12°092	9°976
31278	10	20°434	9°197
31279	31	21°761	9°563
31280	10	0°711	10°111
31281	10	5°675	10°067
31282	11	6°909	10°428
31283	11	10°266	10°052
31284	18	12°511	10°081
31285*	34	14°453	10°586
31286	12	15°290	10°144
31287	11	17°840	10°849
31288	18	21°187	10°972
31289	11	22°256	10°530
31290	8	1°085	11°732
31291	6	1°493	11°675
31292	19	4°431	11°690
31293	13	9°374	11°954
31294	8	11°467	11°379
31295	13	12°691	11°815
31296	11	14°092	11°670
31297	11	16°237	11°359
31298	10	16°591	11°554
31299	15	19°575	11°963
31300	18	2°862	12°390
31301	11	5°167	12°187
31302	14	9°026	12°842
31303	12	10°992	12°121
31304	10	11°035	12°558
31305	12	16°265	12°352
31306	13	16°627	12°553
31307	14	18°463	12°782
31308	12	20°533	12°028
31309	27	21°005	12°038
31310	7	21°075	12°019
31311	14	23°803	12°807
31312	9	25°516	12°341
31313	10	4°764	13°722
31314	12	8°671	13°987
31315	12	13°163	13°927
31316	9	19°407	13°159
31317	12	21°171	13°188
31318	10	21°707	13°398
31319	10	25°243	13°493
31320*	56	25°682	13°509
31321	16	4°920	14°948
31322	8	11°530	14°912
31323	9	13°421	14°478
31324	13	13°485	14°098
31325	10	19°092	14°553
31326	8	20°480	14°527
31327	14	21°676	14°670
31328	10	24°547	14°021
31329	12	25°238	14°196
31330	9	2°486	15°268
31331	12	6°987	15°613
31332	8	7°396	15°836
31333	9	9°575	15°842
31334	12	10°802	15°950
31335	22	12°356	15°937
31336	9	16°218	15°116
31337	15	19°440	15°621
31338	10	22°141	15°227
31339	20	25°658	15°232
31340	10	2°798	16°363
31341*	33	6°879	16°489
31342	12	11°448	16°518
31343*	35	16°168	16°484
31344	14	20°701	16°138
31345	9	21°026	16°848
31346	9	24°722	16°802
31347	10	0°932	17°430
31348	11	1°893	17°700
31349	11	3°086	17°593
31350	22	4°614	17°356
31351	12	5°271	17°150
31352	27	5°718	17°186
31353	14	5°760	17°984
31354	7	6°417	17°142
31355	15	6°714	17°394
31356	8	10°043	17°136
31357	8	12°695	17°142
31358	12	13°766	17°587
31359	21	17°450	17°849
31360	5	18°261	17°502
31361	10	18°860	17°288
31362*	22	21°843	17°085
31363	12	24°509	17°560
31364	11	25°779	17°033
31365	9	4°764	18°099
31366	10	8°661	18°890
31367	18	9°140	18°559
31368	24	9°438	18°382
31369*	47	10°965	18°715
31370	10	11°569	18°530
31371	20	12°067	18°481
31372*	26	12°730	18°762
31373	8	22°049	18°670
31374	8	22°680	18°075
31375	13	25°116	18°000
31376*	25	2°382	19°693
31377	8	4°366	19°057
31378	17	4°559	19°444

R. A. 10^h 39^m

Plate 717; 1895 Apr. 24.

Provisional Constants.

A	B	C
+00787	+00125	-03055

D	E	F
-00090	+00750	-03186

Mag. = 13.3 - 1.02 $\sqrt{d}$

No.	d	x	y
31501	10	16°058	0°691
31502	6	16°450	0°424
31503	5	16°727	0°977
31504*	10	19°411	0°240
31505	11	8°479	1°647
31506	6	11°537	1°926
31507	11	18°835	1°777
31508	8	21°785	1°700
31509	6	2°955	3°792
31510*	15	11°276	3°219
31511	6	20°958	3°023
31512	8	25°417	3°850
31513*	14	0°516	4°207
31514	10	4°393	4°841
31515*	13	24°992	4°733
31516	10	10°978	5°022
31517*	9	15°583	5°629
31518*	23	20°568	5°981
31519*	10	2°813	6°330
31520	10	24°070	6°804
31521	8	0°077	7°497
31522*	17	6°043	7°291
31523	8	10°240	7°919
31524	10	16°764	7°348
31525	7	10°843	8°157
31526	10	17°810	8°142
31527	6	18°243	8°460
31528	7	6°641	9°987
31529	10	18°262	9°402
31530	11	22°211	9°637
31531	9	23°571	9°665
31532*	20	5°054	10°764
31533	9	11°549	10°001
31534	6	16°958	10°404
31535	11	24°120	10°188
31536	5	25°363	10°916
31537	10	7°102	11°351
31538	10	8°302	11°206
31539*	28	11°196	11°908
31540*	16	5°339	12°722
31541	9	6°214	12°923
31542	11	7°981	12°803
31543	10	12°250	12°920
31544	6	13°903	12°503
31545	11	14°683	12°090
31546	11	19°083	12°024
31547	9	19°211	12°362
31548	19	19°999	12°438
31549	7	21°209	12°099
31550*	40	1°656	13°382
31551	12	8°426	13°326
31552	5	11°840	13°529
31553	6	13°428	13°678
31554	10	14°992	13°210
31555	9	19°702	13°250
31556	11	21°414	13°726

31557	9	3°345	14°882	31706	7	9°060	1°813	31780	11	17°606	12°113	31854*	19	17°664	22°346	31939*	22	18°967	4°798
31558	10	4°191	14°637	31707	10	9°085	1°523	31781	12	22°404	12°572	31855*	15	4°885	23°776	31940	7	19°805	4°834
31559	10	5°261	14°517	31708	5	11°485	1°973	31782	5	4°420	13°266	31856*	9	6°500	23°696	31941*	32	20°516	4°034
31560	5	16°019	14°150	31709	8	12°011	1°346	31783	21	5°635	13°389	31857	11	10°857	23°583	31942	20	20°563	4°635
31561	12	1°658	15°119	31710	5	13°061	1°424	31784	9	9°119	13°443	31858	7	14°522	23°960	31943	10	25°556	4°487
31562	9	6°446	15°231	31711	5	19°424	1°713	31785	10	9°705	13°364	31859	7	19°153	23°272	31944	5	15°381	5°426
31563	8	9°370	15°450	31712	17	20°897	1°757	31786	9	9°823	13°597	31860	11	19°615	23°234	31945	5	15°565	5°635
31564	6	11°102	15°879	31713	16	22°532	1°244	31787*	12	9°939	13°426	31861*	13	21°742	23°124	31946	5	19°074	5°397
31565	8	17°383	15°660	31714	5	8°996	2°212	31788	5	10°456	13°507	31862*	12	9°224	24°456	31947*	31	23°471	5°799
31566	11	7°240	16°213	31715	18	16°660	2°245	31789	19	14°604	13°379	31863	5	12°630	24°680	31948	7	3°809	6°287
31567	17	10°697	16°474	31716	19	21°225	2°201	31790	6	19°588	13°889	31864*	26	6°752	25°206	31949	14	11°340	6°204
31568	11	13°741	17°976	31717	11	21°738	2°117	31791	10	3°554	14°176	31865	11	10°806	25°920	31950	10	13°508	6°718
31569	12	25°600	17°726	31718	17	1°109	3°926	31792*	11	7°596	14°165	31866*	11	15°658	25°507	31951	8	17°048	6°869
31570	8	13°716	18°326	31719	7	9°499	3°936	31793	11	10°375	14°313					31952	5	21°685	6°974
31571*	21	15°975	18°700	31720	5	12°200	3°225	31794	12	21°376	14°538					31953	6	23°836	6°787
31572	8	16°357	18°043	31721*	20	16°273	3°103	31795	5	1°316	15°902					31954	5	1°444	7°875
31573	9	21°131	18°272	31722	7	19°463	3°675	31796	17	2°614	15°817					31955	5	2°508	7°627
31574	8	25°852	18°926	31723	8	20°284	3°516	31797	5	4°804	15°366					31956	5	3°288	7°898
31575*	23	1°362	19°326	31724*	24	0°707	4°815	31798	12	9°078	15°308					31957	14	4°535	7°475
31576*	19	1°683	19°259	31725	17	1°764	4°328	31799	14	14°542	15°593					31958	9	7°315	7°493
31577	9	3°787	19°666	31726	10	18°341	4°383	31800	5	18°904	15°476					31959	5	9°662	7°867
31578	10	4°825	19°722	31727	13	20°015	4°267	31801	5	25°783	15°557					31960	5	10°916	7°940
31579	5	5°185	19°997	31728	20	22°834	4°235	31802	6	13°487	16°617					31961	11	15°559	7°942
31580	10	12°120	19°458	31729	21	25°104	4°655	31803	20	15°835	16°287					31962	9	16°285	7°849
31581	11	14°810	19°982	31730	15	4°586	5°985	31804	10	16°100	16°832					31963	7	16°640	7°650
31582*	10	9°024	20°436	31731	19	6°155	5°365	31805*	30	20°385	16°142					31964	16	20°149	7°826
31583	10	7°489	21°506	31732	9	9°158	5°644	31806	20	1°586	17°794					31965	7	20°425	7°338
31584	10	14°115	21°078	31733	10	10°487	5°216	31807	11	3°722	17°639					31966*	23	23°054	7°795
31585	7	15°351	21°803	31734	9	14°129	5°585	31808	13	5°334	17°426					31967	5	24°075	7°215
31586*	11	19°652	21°661	31735	6	14°204	5°508	31809*	38	10°986	17°586					31968	7	2°707	8°837
31587	12	1°359	22°695	31736	11	14°505	5°795	31810	19	15°393	17°665					31969	9	3°907	8°341
31588	8	1°398	22°394	31737	5	2°173	6°963	31811	8	1°867	18°987					31970	9	4°804	8°174
31589	11	4°205	22°198	31738	18	2°398	6°955	31812*	55	3°187	18°935					31971	7	5°335	8°406
31590	12	5°911	22°084	31739	5	2°974	6°369	31813	5	3°567	18°467					31972*	34	8°104	8°475
31591	5	6°980	22°809	31740	18	5°954	6°424	31814	10	5°884	18°477					31973*	49	8°585	8°877
31592	13	0°030	23°356	31741	6	6°600	6°375	31815	11	10°907	18°866					31974	9	11°619	8°329
31593	8	1°040	23°566	31742	20	6°972	6°417	31816	7	16°158	18°909					31975	7	13°595	8°173
31594	9	4°801	23°808	31743	5	7°887	6°923	31817	10	18°306	18°206					31976	8	22°062	8°412
31595	10	8°785	23°287	31744	5	8°885	6°643	31818	20	21°039	18°365					31977	5	23°430	8°885
31596	7	11°677	23°382	31745	7	10°178	6°458	31819	11	21°093	18°335					31978	6	24°125	8°123
31597	10	18°921	23°029	31746	6	11°818	6°850	31820	6	3°140	19°448					31979	11	24°286	8°444
31598*	17	20°259	23°030	31747	6	5°413	7°648	31821	10	5°577	19°208					31980	7	25°815	8°696
31599	5	20°557	23°541	31748	11	5°744	7°452	31822	20	9°017	19°086					31981	10	10°390	9°460
31600	8	9°327	24°081	31749	18	11°211	7°373	31823	21	9°230	19°813					31982	12	10°855	9°323
31601	6	13°820	24°255	31750	6	14°406	7°359	31824	10	10°666	19°840					31983	6	13°456	9°764
31602	12	20°358	24°265	31751	18	20°639	7°123	31825	9	11°083	19°984					31984	13	14°985	9°308
				31752	5	6°207	8°960	31826	12	18°568	19°977					31985	5	18°343	9°095
				31753	17	7°665	8°004	31827	10	19°113	19°857					31986*	15	18°480	9°155
				31754	13	15°692	8°616	31828	5	21°444	19°760					31987	7	20°566	9°568
				31755	6	16°322	8°364	31829	8	21°457	19°997					31988	6	23°529	9°605
				31756	5	20°198	8°465	31830	7	1°295	20°065					31989	5	0°715	10°976
				31757	15	20°594	8°228	31831	7	3°899	20°334					31990	14	1°511	10°486
				31758	14	22°264	8°325	31832*	20	4°632	20°762					31991	7	7°559	10°941
				31759	18	5°224	9°221	31833	12	7°691	20°184					31992*	29	8°744	10°528
				31760	14	6°507	9°264	31834	15	10°213	20°505					31993	5	2°875	11°747
				31761	9	6°834	9°983	31835	6	11°548	20°628					31994	22	10°039	11°157
				31762	10	12°225	9°035	31836	5	14°082	20°799					31995	5	17°195	11°884
				31763*	20	22°245	9°035	31837	13	14°894	20°814					31996	20	25°060	11°669
				31764	14	22°876	9°862	31838	5	17°688	20°615					31997	20	2°011	12°445
				31765	12	2°309	10°277	31839	5	21°335	20°832					31998	9	2°090	12°594
				31766	21	3°388	10°807	31840	7	22°388	20°285					31999	6	3°856	12°969
				31767*	20	8°004	10°733	31841	8	24°245	20°062					32000	10	3°925	12°734
				31768	19	10°814	10°628	31842	7	9°256	21°464					32001	8	6°906	12°870
				31769*	20	12°624	10°334	31843*	20	10°415	21°284					32002	10	7°497	12°110
				31770	10	14°628	10°743	31844	18	10°894	21°495					32003	13	7°793	12°287
				31771	7	16°343	10°238	31845*	20	12°677	21°339					32004	8	9°086	12°326
				31772	5	16°902	10°343	31846	19	19°517	21°434					32005	6	9°533	12°355
				31773	5	20°853	10°398	31847	17	22°318	21°220					32006	6	12°594	12°942
				31774	14	25°716	10°333	31848	7	24°506	21°894					32007	5	17°095	12°419
				31775	5	0°206	11°945	31849	5	25°653	21°336					32008	5	18°310	12°762
				31776	11	6°808	11°055	31850	5	2°693	22°278					32009	11	20°662	12°276
				31777	7	19°344	11°313	31851	5	5°287	22°237					32010	9	20°700	12°280
				31778	5	21°135	11°626	31852	5</										

32013	12	6.853	13.627	32087	8	0.574	21.979	32226	19	10.956	3.659	32300	10	11.911	13.269
32014	14	11.499	13.109	32088	10	1.696	21.404	32227	6	13.211	3.760	32301	8	13.700	13.185
32015	8	17.475	13.105	32089*	20	5.153	21.163	32228	10	14.373	3.787	32302	10	19.251	13.633
32016	14	18.836	13.398	32090	11	8.556	21.720	32229	7	15.450	3.439	32303*	22	24.399	13.899
32017	10	22.015	13.387	32091	11	9.042	21.059	32230	13	18.358	3.964	32304	11	1.202	14.003
32018	12	24.595	13.842	32092	11	11.225	21.687	32231	11	18.470	3.544	32305	10	1.575	14.482
32019	5	2.484	14.176	32093	7	11.407	21.945	32232	17	20.490	3.163	32306	6	17.691	14.023
32020	10	6.795	14.152	32094	6	18.199	21.297	32233	10	2.026	4.642	32307*	47	23.503	14.201
32021	10	13.073	14.347	32095	5	18.894	21.263	32234	6	5.711	4.144	32308	10	25.275	14.386
32022	5	14.464	14.745	32096	10	24.604	21.461	32235	12	6.016	4.332	32309	11	1.731	15.652
32023	6	17.856	14.620	32097*	17	7.196	22.565	32236	10	10.882	4.844	32310	10	4.445	15.764
32024	5	20.559	14.916	32098	6	16.515	22.756	32237	24	21.101	4.161	32311	6	9.234	15.614
32025	13	21.841	14.175	32099	26	13.465	23.380	32238	10	22.791	4.088	32312	15	10.631	15.910
32026	8	23.555	14.576	32100	13	13.845	23.250	32239	22	25.011	4.608	32313	17	10.780	15.574
32027	10	24.963	14.325	32101*	24	17.845	23.603	32240	7	2.525	5.787	32314	12	15.720	15.868
32028	6	1.696	15.666	32102	9	21.345	23.730	32241	16	7.569	5.429	32315	7	23.379	15.726
32029	9	2.275	15.675	32103*	37	24.385	23.999	32242	21	10.383	5.266	32316	9	1.034	16.878
32030	5	4.364	15.778	32104	5	6.641	24.814	32243*	33	13.772	5.311	32317	10	1.995	16.157
32031	10	5.384	15.235	32105	8	23.904	24.174	32244	5	18.865	5.325	32318	10	5.493	16.767
32032	5	5.626	15.185	32106	7	2.969	25.526	32245	10	21.039	5.830	32319	7	5.768	16.036
32033	5	6.776	15.607	32107	7	5.528	25.955	32246	10	4.230	6.773	32320	10	6.161	16.406
32034	12	17.475	15.183	32108	5	5.790	25.175	32247	10	14.591	6.566	32321	6	8.945	16.447
32035	11	18.236	15.500	32109	38	11.398	25.454	32248	9	18.831	6.140	32322	6	12.924	16.032
32036	23	18.557	15.034	32110	9	16.875	25.752	32249	9	19.355	6.507	32323	10	14.064	16.810
32037	19	20.360	15.703	32111	6	17.384	25.173	32250	10	19.904	6.940	32324	10	21.024	16.568
32038	6	23.116	15.465	32112*	35	18.032	25.774	32251	7	23.580	6.668	32325	9	25.557	16.068
32039	15	25.097	15.495	32113	22	20.025	25.600	32252*	21	3.809	7.245	32326	11	4.772	17.985
32040	5	0.775	16.555	32114	6	20.166	25.936	32253	10	6.845	7.108	32327	6	5.006	17.556
32041	5	5.163	16.943					32254	5	7.853	7.112	32328	10	8.876	17.807
32042	12	15.204	16.628					32255	9	8.562	7.681	32329*	22	8.934	17.688
32043	10	15.211	16.632					32256	10	10.570	7.738	32330	9	12.027	17.372
32044*	30	18.290	16.423					32257	5	11.877	7.553	32331	12	13.517	17.278
32045	10	23.046	16.565					32258	10	11.934	7.171	32332	14	15.212	17.469
32046	6	24.384	16.711					32259*	24	12.891	7.550	32333	10	21.930	17.812
32047	7	25.355	16.004					32260*	39	17.558	7.964	32334	9	9.138	18.490
32048	8	4.176	17.968					32261	12	17.795	7.240	32335	9	25.072	18.405
32049	12	5.554	17.682					32262*	23	23.453	7.959	32336	11	1.640	19.086
32050	10	6.265	17.068					32263	10	0.817	8.614	32337*	32	6.481	19.204
32051	6	7.558	17.328					32264	7	2.349	8.848	32338	14	20.067	19.590
32052*	36	11.782	17.747					32265	9	2.833	8.311	32339	17	23.665	19.685
32053	10	12.663	17.920					32266	12	8.064	8.813	32340	10	4.357	20.800
32054	7	19.268	17.885					32267	6	14.147	8.774	32341*	15	6.145	20.536
32055	7	20.084	17.022					32268	5	16.065	8.141	32342	11	15.038	20.227
32056	10	2.117	18.713					32269	10	22.185	8.903	32343	18	15.356	20.948
32057	7	4.870	18.489					32270	7	22.900	8.464	32344	16	17.877	20.594
32058	5	7.220	18.533					32271	10	24.015	8.159	32345	18	18.235	20.046
32059	11	7.629	18.055					32272	12	24.365	8.000	32346	15	24.655	20.058
32060	5	8.086	18.377					32273*	13	13.216	9.045	32347	12	1.324	21.625
32061	18	11.857	18.257					32274	6	14.121	9.513	32348	10	11.798	21.021
32062	6	12.106	18.404					32275	5	16.385	9.941	32349	11	13.219	21.655
32063	17	12.829	18.036					32276*	37	18.056	9.443	32350	9	15.800	21.612
32064	12	19.148	18.198					32277*	15	18.475	9.806	32351	10	16.544	21.198
32065	6	20.089	18.892					32278	10	18.652	9.569	32352	10	19.945	21.264
32066	12	24.959	18.927					32279	9	25.286	9.799	32353	13	5.226	22.445
32067	20	3.825	19.186					32280	12	25.480	9.129	32354*	22	5.358	22.707
32068	11	10.041	19.646					32281*	22	12.046	10.113	32355*	23	7.723	22.782
32069	12	12.575	19.936					32282	8	19.351	10.637	32356	10	9.419	22.791
32070	7	18.165	19.785					32283	17	22.318	10.006	32357	11	9.686	22.307
32071	12	18.296	19.528					32284	9	22.680	10.862	32358	10	10.068	22.735
32072	6	19.408	19.971					32285	16	1.637	11.829	32359	13	11.081	22.544
32073*	26	20.945	19.509					32286	5	6.708	11.139	32360	10	13.994	22.730
32074*	22	22.567	19.853					32287	9	12.577	11.494	32361	9	15.916	22.511
32075	9	0.274	20.172					32288	12	16.282	11.591	32362	17	18.155	22.939
32076	5	4.753	20.101					32289	8	18.186	11.089	32363	20	25.012	22.897
32077*	37	4.803	20.840					32290	14	19.354	11.829	32364*	17	13.638	23.198
32078	7	5.856	20.926					32291*	17	20.696	11.263	32365	10	16.165	23.578
32079	6	6.085	20.761					32292	10	9.159	12.037	32366	10	17.596	23.533
32080	7	6.516	20.330					32293	13	16.645	12.356	32367	6	18.916	23.822
32081	6	8.836	20.695					32294	17	22.210	12.195	32368*	38	1.141	24.163
32082	7	11.116	20.255					32295	7	25.897	12.648	32369	9	17.931	24.405
32083	9	15.465	20.615					32296	12	3.622	13.515	32370*	31	24.673	24.653
32084	5	15.525	20.867					32297	9	5.759	13.146	32371	13	16.462	25.338
32085	5	17.038	20.216					32298	10	7.655	13.490	32372	13	21.555	25.828
32086	5	0.050	21.385					32299	21	9.334	13.293				

R. A. 11^h 15^m

Plate 1770; 1901 Apr. 1.

Provisional Constants.

A	B	C
-00085	+00672	-4766

D	E	F
-00718	-00058	+0789

Mag. = 15.3 - 1.25 $\sqrt{d}$ Owing to photographic defect, a dozen stars near $x=0$, $y=0$ omitted. See Errata.

No.	d	x	y
32401	12	7.633	0.806
32402	10	11.672	0.446
32403	11	12.553	0.316
32404	13	13.045	0.050
32405	10	14.279	0.300
32406	14	14.797	0.639
32407	10	17.469	0.256
32408	13	17.713	0.106
32409	12	22.107	0.349
32410	10	8.684	1.091
32411	9	17.669	1.638
32412	12	19.676	1.090
32413	10	20.568	1.091
32414	12	20.687	1.635
32415	12	21.308	1.099
32416	15	21.579	1.063
32417	12	23.855	1.859
32418	16	25.240	1.026
32419	29	4.562	2.466
32420	12	8.315	2.967
32421	15	9.309	2.563
32422	12	11.584	2.175
32423	11	13.500	2.409
32424	9	13.790	2.013
32425	10	13.850	2.895
32426	11	14.610	2.654
32427	11	16.286	2.08

32454	9	7°183	5°313	32528	9	1°733	12°926	32602	10	14°839	17°009	32676*	12	19°531	23°772	32738	12	20°479	4°649
32455	15	12°697	5°810	32529*	30	2°193	12°702	32603	10	17°024	17°315	32677	11	20°924	23°301	32739	6	23°054	4°095
32456	12	13°574	5°920	32530	10	3°449	12°209	32604	12	17°875	17°151	32678	10	23°706	23°003	32740	15	5°624	5°314
32457	8	15°167	5°153	32531	13	3°641	12°423	32605	12	19°215	17°214	32679	12	25°152	23°002	32741	6	23°368	5°482
32458	12	15°849	5°313	32532	12	4°739	12°299	32606	7	22°841	17°430	32680*	40	0°761	24°957	32742	22	2°546	6°358
32459*	30	18°065	5°960	32533	12	4°991	12°030	32607	12	24°128	17°016	32681	10	8°747	24°523	32743	6	3°076	6°896
32460	10	18°397	5°108	32534	10	5°295	12°122	32608	12	1°028	18°703	32682	10	15°815	24°183	32744	5	4°535	6°442
32461	10	18°725	5°345	32535	9	5°894	12°420	32609	10	5°563	18°411	32683	10	19°018	24°207	32745	24	8°765	6°682
32462	12	20°370	5°708	32536	9	15°446	12°955	32610	17	6°622	18°259	32684	10	19°954	24°272	32746	24	8°960	6°544
32463	20	22°875	5°810	32537	11	19°961	12°911	32611	12	8°310	18°000	32685	12	20°066	24°837	32747	6	10°475	6°209
32464	9	4°063	6°670	32538	10	20°956	12°550	32612	10	9°045	18°472	32686	9	22°445	24°080	32748*	37	15°541	6°399
32465	10	5°419	6°125	32539*	12	21°680	12°411	32613	10	9°643	18°545	32687	9	11°168	25°286	32749	12	17°056	6°301
32466	22	10°894	6°165	32540	8	21°910	12°528	32614	10	11°540	18°965	32688	10	15°593	25°002	32750	8	0°467	7°223
32467	10	13°255	6°967	32541	12	22°079	12°736	32615	10	14°849	18°770	32689	7	15°803	25°364	32751	9	1°295	7°684
32468	12	17°349	6°393	32542	9	23°237	12°695	32616	9	17°047	18°331	32690	10	16°038	25°330	32752	7	11°964	7°878
32469	6	18°261	6°825	32543	11	2°650	13°096	32617	10	20°950	18°691	32691	10	18°310	25°153	32753	14	12°963	7°307
32470	13	18°330	6°887	32544	11	5°249	13°391	32618	10	24°834	18°748	32692	11	22°793	25°875	32754	6	13°795	7°637
32471	9	21°891	6°230	32545	13	12°491	13°287	32619	9	25°249	18°182					32755	15	15°275	7°529
32472	11	5°260	7°557	32546	19	12°801	13°088	32620	21	25°870	18°861					32756	5	16°317	7°787
32473	12	5°371	7°178	32547*	21	14°878	13°420	32621	10	4°905	19°891					32757	12	18°155	7°883
32474	9	5°671	7°799	32548	10	16°432	13°220	32622*	19	7°175	19°054					32758*	25	3°187	8°296
32475	14	7°580	7°889	32549	11	16°877	13°651	32623	9	9°440	19°955					32759	6	3°280	8°354
32476	8	10°299	7°805	32550	10	17°455	13°520	32624	12	13°178	19°699					32760	10	16°407	8°095
32477	8	10°717	7°781	32551	14	20°099	13°395	32625	9	13°355	19°659					32761	7	17°605	8°661
32478	17	14°230	7°613	32552*	30	0°263	14°207	32626	10	17°926	19°172					32762	8	21°785	8°706
32479	12	15°341	7°115	32553	12	1°154	14°677	32627	9	19°565	19°325					32763	8	21°836	8°857
32480	8	16°985	7°170	32554	10	6°073	14°422	32628	9	20°438	19°411					32764	8	24°051	8°995
32481	10	18°095	7°916	32555	10	7°782	14°841	32629	18	21°759	19°275					32765	5	25°207	8°380
32482*	21	21°270	7°703	32556	9	10°207	14°680	32630	10	23°250	19°577					32766*	18	0°921	9°697
32483	10	24°560	7°290	32557	10	10°296	14°165	32631	17	25°436	19°847					32767*	27	3°145	9°334
32484	12	25°378	7°766	32558	10	10°484	14°818	32632	26	0°646	20°362					32768	6	9°485	9°441
32485	12	5°633	8°637	32559	8	12°428	14°396	32633	20	2°884	20°499					32769	7	14°777	9°155
32486	11	6°180	8°000	32560	10	13°625	14°830	32634	7	8°239	20°030					32770	5	18°404	9°593
32487	10	6°644	8°363	32561	16	14°767	14°302	32635	21	14°521	20°353					32771	7	20°815	9°338
32488	8	6°865	8°135	32562	17	14°981	14°171	32636	8	14°880	20°945					32772	5	5°216	10°542
32489	10	8°320	8°460	32563	8	16°076	14°031	32637	10	20°010	20°682					32773	9	11°096	10°840
32490*	14	12°505	8°557	32564	12	16°104	14°763	32638	10	20°057	20°342					32774	23	15°972	10°553
32491	11	18°098	8°733	32565	11	16°238	14°466	32639	8	22°030	20°691					32775	7	16°438	10°750
32492	17	18°291	8°570	32566	11	17°501	14°339	32640	10	23°387	20°150					32776	13	18°824	10°721
32493*	20	20°116	8°206	32567	8	19°366	14°232	32641	9	23°428	20°043					32777	5	21°569	10°527
32494	13	9°881	9°661	32568	8	22°108	14°716	32642	12	24°490	20°837					32778*	26	24°949	10°432
32495	9	13°494	9°560	32569	10	4°922	15°416	32643	13	3°791	21°384					32779	10	5°241	11°908
32496	10	14°109	9°448	32570	11	8°041	15°153	32644	9	7°343	21°587					32780	14	9°884	11°858
32497	8	14°903	9°635	32571	8	8°249	15°411	32645*	21	12°470	21°518					32781	15	18°514	11°259
32498	10	15°957	9°538	32572	17	9°112	15°888	32646	9	18°667	21°262					32782	15	18°658	11°718
32499	10	16°281	9°257	32573	10	10°917	15°547	32647	7	21°135	21°625					32783	6	21°686	11°250
32500	9	19°163	9°969	32574	10	12°453	15°721	32648	10	24°405	21°151					32784*	19	8°987	12°049
32501	9	19°963	9°808	32575	18	14°904	15°822	32649	25	2°850	22°730					32785	5	10°115	12°820
32502	10	20°987	9°110	32576	10	16°348	15°660	32650	14	3°130	22°908					32786	5	10°538	12°662
32503	10	22°139	9°545	32577	11	18°765	15°265	32651	7	3°841	22°066					32787	14	14°363	12°549
32504*	20	24°963	9°772	32578	14	19°699	15°210	32652	11	6°458	22°386					32788	7	17°184	12°510
32505	10	4°135	10°925	32579	12	21°683	15°798	32653	10	8°364	22°073					32789	7	18°466	12°830
32506	9	10°760	10°809	32580	10	23°095	15°060	32654	11	11°735	22°733					32790	6	19°186	12°259
32507	12	10°834	10°795	32581	10	25°676	15°531	32655	8	11°771	22°729					32791	5	19°521	12°214
32508	8	10°990	10°751	32582	19	1°466	16°354	32656	8	12°258	22°820					32792	26	19°776	12°240
32509	12	12°908	10°946	32583	12	2°160	16°985	32657	10	12°301	22°666					32793	6	20°956	12°478
32510	12	14°088	10°836	32584	10	7°098	16°292	32658	10	12°803	22°941					32794	5	23°420	12°295
32511	10	14°310	10°125	32585	9	8°902	16°296	32659	10	13°565	22°304					32795	10	3°980	13°070
32512	8	16°215	10°470	32586	12	10°951	16°410	32660	12	16°490	22°841					32796	5	11°425	13°433
32513	8	18°205	10°243	32587	12	13°111	16°056	32661	18	18°402	22°259					32797	11	11°430	13°497
32514	9	20°644	10°674	32588	12	16°338	16°608	32662	10	20°349	22°655					32798	13	15°758	13°287
32515*	27	23°782	10°255	32589	12	16°683	16°244	32663	11	22°899	22°901					32799*	38	17°565	13°745
32516	2	3°517	11°255	32590	19	19°855	16°538	32664	10	23°156	22°687					32800	5	22°381	13°840
32517	9	5°381	11°943	32591	9	19°875	16°722	32665	12	24°373	22°909					32801	12	23°216	13°122
32518*	40	5°681	11°949	32592	9	21°377	16°354	32666	8	24°546	22°310					32802	9	25°088	13°192
32519	10	6°359	11°601	32593	10	21°440	16°224	32667	13	25°635	22°344					32803	6	2°897	14°965
32520	9	6°819	11°840	32594	12	3°476	17°408	32668	32	1°068	23°191					32804	7	8°094	14°871
32521	10	7°194	11°457	32595	11	4°110	17°201	32669	12	6°107	23°504					32805	5	8°579	14°835
32522	10	8°477	11°338	32596*	20	7°430	17°916</												

32812	6	5'998	15'064	32886	7	17'566	22'855	33031	8	22'909	4'520	33105	9	5'042	16'055
32813	16	10'186	15'962	32887	11	20'549	22'425	33032	12	23'093	4'071	33106*	63	7'735	16'744
32814	13	12'206	15'161	32888	8	1'392	23'825	33033	11	23'432	4'553	33107	11	7'771	16'685
32815	7	18'574	15'967	32889	7	6'078	23'124	33034	20	23'796	4'450	33108	7	8'951	16'155
32816	6	0'230	16'956	32890	8	6'985	23'665	33035	14	24'970	4'076	33109*	37	10'212	16'645
32817*	16	5'655	16'305	32891	7	11'544	23'477	33036	7	8'074	5'631	33110	6	10'930	16'257
32818	6	7'336	16'586	32892	6	12'318	23'116	33037*	12	8'100	5'845	33111	8	1'765	17'784
32819	20	9'693	16'982	32893*	13	12'595	23'620	33038	7	13'742	5'998	33112	12	3'071	17'955
32820	12	13'440	16'544	32894	11	13'302	23'135	33039	10	13'815	5'578	33113	7	17'095	17'519
32821	28	13'761	16'558	32895	23	14'730	23'635	33040	17	24'127	5'262	33114	8	2'312	18'300
32822	6	15'786	16'923	32896	5	15'511	23'818	33041	18	25'752	5'699	33115	10	2'975	18'464
32823	20	16'139	16'385	32897	19	16'895	23'269	33042	11	26'000	5'313	33116	22	2'985	18'315
32824	7	23'155	16'452	32898*	52	6'385	24'283	33043	11	3'291	6'957	33117	12	3'136	18'468
32825	16	25'645	16'071	32899	12	8'660	24'173	33044	12	7'785	6'529	33118*	42	7'095	18'222
32826	5	5'315	17'975	32900	6	9'215	24'776	33045	6	10'630	6'097	33119	17	7'150	18'858
32827	9	5'571	17'305	32901	20	14'776	24'016	33046	14	13'967	6'875	33120	10	7'625	18'031
32828	5	10'242	17'835	32902	5	16'626	24'721	33047*	32	16'558	6'807	33121	10	13'435	18'822
32829	6	15'855	17'742	32903*	46	16'855	24'728	33048	30	16'572	6'808	33122	8	16'074	18'590
32830	6	25'089	17'646	32904	21	2'415	25'096	33049	10	17'095	6'625	33123*	25	18'034	18'206
32831	6	0'973	18'675	32905	5	2'808	25'734	33050*	32	7'687	7'070	33124	10	21'646	18'934
32832	7	1'375	18'104	32906	6	24'017	25'593	33051	12	11'329	7'535	33125	8	0'716	19'600
32833*	25	2'011	18'767	32907	8	25'626	25'773	33052	10	17'379	7'892	33126	15	7'461	19'920
32834	6	2'681	18'552					33053	8	19'159	7'610	33127	8	8'270	19'690
32835	9	4'754	18'126					33054	11	22'472	7'251	33128	5	17'755	19'608
32836	5	6'186	18'891					33055	15	23'426	7'475	33129	8	19'093	19'860
32837	6	7'245	18'051					33056	17	24'653	7'782	33130	11	19'160	19'269
32838	8	7'590	18'683					33057	12	25'085	7'885	33131	9	2'493	20'100
32839	6	8'512	18'742					33058	12	15'290	8'817	33132	9	9'370	20'383
32840	9	13'573	18'068					33059	10	20'627	8'225	33133	15	9'614	20'880
32841	9	17'417	18'315					33060	8	0'586	9'150	33134	9	11'450	20'035
32842	8	25'627	18'175					33061*	22	3'899	9'884	33135	10	12'860	20'371
32843	15	1'595	19'765					33062	6	6'319	9'735	33136	12	16'193	20'745
32844	5	5'634	19'197					33063	13	7'457	9'849	33137	10	17'664	20'601
32845	6	6'936	19'860					33064	25	19'791	9'889	33138	12	25'098	20'003
32846	5	7'010	19'390					33065	8	20'613	9'453	33139	10	9'407	21'580
32847	5	8'384	19'801					33066*	21	1'505	10'571	33140*	31	17'111	21'464
32848	15	10'238	19'550					33067	14	3'301	10'732	33141	12	21'728	21'890
32849	12	12'824	19'672					33068	11	10'444	10'941	33142	8	5'835	22'895
32850	5	13'294	19'317					33069	9	14'419	10'753	33143	10	9'465	22'790
32851	15	14'613	19'836					33070	12	14'496	10'418	33144	14	13'226	22'865
32852	14	15'799	19'476					33071	10	20'880	10'992	33145	12	16'510	22'285
32853	5	16'015	19'566					33072	11	21'881	10'511	33146	10	19'588	22'963
32854	5	17'456	19'079					33073	7	22'050	10'089	33147	14	25'460	22'984
32855	5	19'070	19'129					33074	12	22'829	10'545	33148	7	6'238	23'605
32856	6	20'395	19'494					33075*	30	24'849	10'336	33149	21	13'740	23'060
32857	9	24'012	19'446					33076	16	5'186	11'786	33150	10	14'844	23'248
32858	7	25'778	19'975					33077	6	6'460	11'720	33151	18	14'867	23'560
32859	11	2'645	20'570					33078	14	7'528	11'623	33152	22	17'265	23'839
32860	12	4'833	20'090					33079	7	20'627	11'742	33153	8	17'391	23'073
32861	12	5'355	20'945					33080	13	6'718	12'250	33154	22	23'006	23'197
32862	5	7'745	20'167					33081*	33	11'161	12'688	33155	13	7'198	24'913
32863	24	7'861	20'314					33082	11	11'789	12'940	33156	17	20'277	24'918
32864	7	12'431	20'594					33083	11	14'411	12'094	33157	12	21'267	24'436
32865*	26	13'321	20'411					33084	7	15'042	12'562	33158	15	2'435	25'900
32866	16	14'788	20'384					33085	22	23'727	12'767	33159*	22	7'922	25'017
32867	12	14'991	20'972					33086	10	1'695	13'329	33160	8	8'435	25'483
32868	10	16'728	20'625					33087	10	3'104	13'372	33161	10	10'275	25'226
32869	6	21'541	20'633					33088	18	4'749	13'325	33162*	13	11'953	25'176
32870	5	0'586	21'094					33089	10	4'851	13'546	33163*	25	13'795	25'209
32871	8	2'854	21'078					33090	11	8'377	13'086	33164	7	15'609	25'193
32872	16	4'984	21'026					33091	10	13'058	13'526	33165	6	18'093	25'867
32873	9	5'641	21'796					33092	11	14'925	13'229	33166	12	18'134	25'807
32874	7	7'285	21'282					33093	15	23'276	13'850	33167	31	25'317	25'861
32875	10	9'456	21'797					33094*	37	21'596	14'841				
32876	8	12'550	21'897					33095	19	23'247	14'650				
32877	5	17'360	21'952					33096	7	8'231	15'664				
32878	10	17'913	21'634					33097	18	15'634	15'839				
32879	5	22'366	21'256					33098	14	17'970	15'637				
32880	9	1'845	22'255					33099	11	23'173	15'343				
32881	13	2'925	22'660					33100	15	24'553	15'713				
32882	10	4'735	22'134					33101	13	2'295	16'197				
32883*	27	7'030	22'070					33102*	30	2'996	16'645				
32884	12	7'333	22'987					33103	9	3'252	16'771				
32885	6	12'215	22'747					33104	16	4'249	16'448				

R. A. 11^h 42^m

Plate 1553; 1900 May 7.

Provisional Constants.

A	B	C
-00004	+00601	-5647

D	E	F
-00544	-00024	-2498

Mag. = 14.7 - 1.02 $\sqrt{d}$ R. A. 11^h 33^m

Plate 1745; 1901 Mar. 25.

Provisional Constants.

A	B	C
-00075	+00668	-1972

D	E	F
-00648	-00069	-2156

Mag. = 15.5 - 1.25 $\sqrt{d}$

No.	d	x	y
33001	12	6.510	0.385
33002	14	13.236	0.834
33003	15	19.995	0.922
33004	12	20.430	0.788
33005	7	24.620	0.191
33006	12	25.307	0.641
33007	7	12.422	1.279
33008	10	13.310	1.908
33009	11	21.245	1.712
33010	12	23.658	1.671
33011	19	1.229	2.892
33012	13	6.726	2.501
33013	8	6.916	2.336
33014	6	7.054	2.196
33015	6	9.215	2.564
33016	9	20.074	2.496
33017	14	20.887	2.680
33018	9	21.638	2.578
33019	6	24.075	2.935
33020	15	3.477	3.565
33021	14	5.289	3.179
33022*	16	6.785	3.663
33023	12	12.434	3.598
33024*	19	12.704	3.262
33025	10	14.044	3.809
33026*	16	15.485	3.250
33027	13	12.071	4.506
33028	8	15.004	4.225
33029	12	15.483	4.956
33030	16	19.881	4.527

33257	12	22°966	4°128	33331	25	4°810	11°369	33405	8	15°940	17°665	33479	7	19°545	23°432	33618	16	12°076	2°418
33258	21	23°159	4°772	33332	21	5°893	11°611	33406	10	16°870	17°231	33480	12	5°095	24°571	33619	25	18°608	2°642
33259	23	1°433	5°807	33333	11	10°052	11°189	33407	18	22°288	17°765	33481*	24	5°845	24°550	33620	11	21°084	2°699
33260	20	1°676	5°420	33334	11	10°481	11°028	33408	12	23°816	17°627	33482	20	6°000	24°079	33621	10	22°499	2°072
33261	10	5°591	5°854	33335	8	13°050	11°161	33409	10	25°366	17°261	33483*	18	6°354	24°540	33622*	37	22°643	2°941
33262	12	5°656	5°684	33336	12	13°139	11°651	33410	10	7°429	18°023	33484*	20	6°360	24°514	33623	10	8°986	3°377
33263	9	6°607	5°460	33337*	51	14°499	11°420	33411	13	10°062	18°161	33485	10	7°882	24°260	33624*	63	12°314	3°732
33264	10	7°064	5°971	33338	10	14°774	11°338	33412	11	11°557	18°711	33486	12	8°462	24°747	33625	10	13°512	3°538
33265*	30	9°471	5°491	33339	13	19°896	11°680	33413	12	17°936	18°961	33487	10	8°824	24°100	33626	12	17°067	3°228
33266	12	10°550	5°448	33340	10	20°579	11°340	33414	9	19°685	18°069	33488	12	10°846	24°270	33627	12	17°113	3°284
33267	18	11°884	5°895	33341	11	21°568	11°169	33415	8	20°421	18°100	33489	10	11°562	24°535	33628	11	18°183	3°270
33268	9	17°412	5°158	33342	10	24°403	11°879	33416	14	23°008	18°644	33490	10	11°711	24°517	33629	24	22°313	3°287
33269	10	19°545	5°146	33343	11	25°743	11°641	33417	10	23°250	18°363	33491*	58	15°828	24°339	33630	32	3°898	4°462
33270	12	21°207	5°350	33344*	43	6°575	12°318	33418	10	5°477	19°644	33492	13	17°809	24°318	33631	12	6°268	4°195
33271	14	25°950	5°963	33345	10	7°239	12°155	33419	12	8°766	19°377	33493	12	19°065	24°174	33632	10	8°736	4°222
33272*	20	2°700	6°550	33346*	26	12°720	12°619	33420	25	11°836	19°450	33494	12	20°633	24°003	33633	14	10°370	4°882
33273	9	3°437	6°487	33347*	45	12°892	12°118	33421	10	14°066	19°562	33495	12	21°705	24°721	33634	10	13°220	4°106
33274	10	6°341	6°641	33348*	21	14°660	12°126	33422	32	14°470	19°449	33496	11	22°044	24°330	33635*	54	15°176	4°752
33275	26	12°039	6°564	33349	10	19°511	12°500	33423	10	15°875	19°750	33497	35	24°760	24°161	33636	21	18°837	4°352
33276	11	14°763	6°098	33350	20	21°080	12°785	33424	11	19°425	19°281	33498	48	1°351	25°981	33637	12	18°899	4°197
33277	11	15°109	6°315	33351	10	23°661	12°909	33425	17	25°062	19°297	33499	12	8°920	25°306	33638	28	19°656	4°135
33278	9	15°537	6°942	33352	10	24°835	12°445	33426	24	1°028	20°129	33500	10	14°389	25°218	33639	10	19°682	4°935
33279	8	16°296	6°226	33353	13	1°820	13°645	33427	13	2°069	20°712	33501	9	14°787	25°160	33640	10	23°935	4°097
33280	19	17°668	6°941	33354	19	15°359	13°559	33428*	61	2°444	20°083	33502	12	16°495	25°523	33641	12	24°922	4°857
33281	25	0°370	7°911	33355	20	18°663	13°550	33429	16	2°947	20°669	33503	12	16°518	25°185	33642	32	5°115	5°090
33282	11	1°955	7°502	33356	10	19°745	13°084	33430*	32	7°324	20°860	33504	21	18°172	25°718	33643	10	5°251	5°541
33283	11	6°599	7°343	33357	19	20°426	13°022	33431	8	8°762	20°072	33505	7	18°863	25°894	33644	14	6°721	5°607
33284	30	9°362	7°730	33358	10	20°967	13°715	33432	18	9°151	20°624	33506	20	18°886	25°617	33645	10	14°289	5°043
33285	22	10°220	7°177	33359	10	22°329	13°169	33433	10	10°130	20°721	33507	11	20°526	25°646	33646*	55	17°915	5°582
33286*	33	11°747	7°839	33360	7	22°832	13°321	33434	10	10°665	20°275	33508	13	20°615	25°573	33647	22	21°506	5°938
33287*	28	11°841	7°625	33361	10	24°603	13°799	33435	13	12°261	20°732	33509	7	20°686	25°610	33648	10	23°101	5°853
33288	14	16°011	7°185	33362	17	24°700	13°289	33436	11	15°838	20°580	33510	13	21°530	25°615	33649	10	24°068	5°822
33289	15	18°616	7°144	33363	28	25°335	13°963	33437	10	16°240	20°899	33511	14	21°710	25°039	33650	11	1°299	6°343
33290	9	21°125	7°195	33364	9	0°412	14°485	33438*	52	17°862	20°785	33512	25	25°357	25°070	33651	28	2°087	6°046
33291	6	21°650	7°078	33365	10	2°400	14°407	33439	11	19°240	20°589					33652	10	3°216	6°261
33292	9	24°771	7°874	33366*	43	2°590	14°250	33440	5	19°324	20°689					33653	11	9°900	6°578
33293	20	25°215	7°251	33367	11	11°250	14°751	33441	10	19°970	20°359					33654*	30	11°138	6°742
33294	23	25°782	7°225	33368	10	11°704	14°273	33442	25	21°721	20°746					33655	15	12°176	6°953
33295	16	0°804	8°004	33369	11	18°175	14°088	33443*	50	21°920	20°490					33656	21	13°580	6°236
33296	8	1°550	8°211	33370	10	19°870	14°120	33444	20	22°270	20°265					33657	15	14°478	6°936
33297	6	4°030	8°247	33371	10	20°177	14°882	33445	24	24°981	20°530					33658	10	17°242	6°807
33298	9	7°440	8°300	33372	8	24°513	14°061	33446	7	1°139	21°590					33659*	42	17°245	6°480
33299	10	8°236	8°220	33373	10	25°161	14°600	33447	10	8°165	21°329					33660	31	18°079	6°834
33300	12	8°238	8°382	33374	23	0°408	15°843	33448	10	8°685	21°391					33661	18	21°445	6°922
33301*	20	8°838	8°837	33375	7	1°145	15°194	33449*	32	12°520	21°650					33662	22	0°598	7°653
33302	10	10°970	8°516	33376	11	3°389	15°579	33450	12	15°976	21°277					33663	20	1°160	7°614
33303	16	11°207	8°075	33377	10	5°503	15°060	33451	8	17°415	21°450					33664	10	9°014	7°635
33304	9	14°041	8°523	33378	11	5°630	15°318	33452	18	17°507	21°541					33665	10	9°136	7°648
33305	23	18°242	8°356	33379	8	5°977	15°654	33453	9	17°967	21°608					33666	11	9°987	7°331
33306	20	22°275	8°040	33380	29	6°550	15°333	33454	11	19°081	21°691					33667	22	10°814	7°892
33307	8	3°676	9°805	33381	11	12°264	15°953	33455	9	21°073	21°296					33668	10	11°704	7°768
33308	13	4°700	9°815	33382	11	13°179	15°198	33456	9	1°565	22°481					33669	10	18°346	7°551
33309	10	8°613	9°853	33383	10	15°346	15°765	33457	19	3°317	22°177					33670	10	23°095	7°257
33310	6	8°732	9°539	33384	24	20°449	15°200	33458	9	4°855	22°089					33671	14	23°851	7°684
33311	10	8°876	9°549	33385	10	23°866	15°228	33459	12	9°234	22°019					33672	13	25°393	7°974
33312*	25	9°826	9°687	33386	12	24°140	15°755	33460	7	9°338	22°240					33673	10	25°970	7°499
33313	10	12°989	9°671	33387	12	2°058	16°361	33461	12	9°640	22°665					33674	13	14°625	8°142
33314	7	16°499	9°493	33388	11	3°260	16°320	33462	10	9°966	22°472					33675*	45	20°316	8°907
33315	14	20°335	9°111	33389	10	6°155	16°813	33463	20	10°159	22°200					33676	14	3°715	9°567
33316	10	20°424	9°302	33390	13	7°412	16°755	33464	11	11°394	22°295					33677	10	4°671	9°606
33317	12	21°555	9°372	33391	9	10°492	16°737	33465	10	12°235	22°534					33678	10	10°641	9°751
33318*	22	22°463	9°872	33392	12	14°911	16°650	33466	12	13°390	22°720					33679*	42	14°626	9°476
33319	10	22°649	9°613	33393	14	15°369	16°109	33467	10	15°324	22°595					33680	14	17°777	9°956
33320	13	25°189	9°639	33394	9	17°764	16°524	33468	22	16°341	22°634					33681	13	4°466	10°646
33321*	46	0°611	10°462	33395	12	18°883	16°379	33469	17	16°933	22°245					33682*	19	8°340	10°181
33322*	52	7°770	10°000	33396	8	19°583	16°819	33470	27	1°443	23°100					33683	10	8°579	10°012
33323	12	10°622	10°9																

33692	12	8·895	11·675	33766	22	11·455	19·638	33957	20	23·962	4·443	34031	9	11·025	11·592
33693	13	9·466	11·548	33767	13	11·527	19·104	33958	6	9·781	5·491	34032	10	12·686	11·190
33694	15	19·518	11·354	33768	17	12·042	19·099	33959	12	10·036	5·375	34033	10	13·284	11·357
33695	14	24·406	11·388	33769	10	17·796	19·975	33960	11	11·661	5·726	34034	19	16·294	11·102
33696	10	24·416	11·963	33770	12	22·391	19·175	33961	10	12·195	5·180	34035*	17	20·160	11·323
33697	25	25·032	11·768	33771	13	22·620	19·646	33962	19	14·199	5·344	34036	15	22·980	11·697
33698	32	25·681	11·339	33772	22	22·680	19·221	33963	12	16·423	5·077	34037	9	23·074	11·829
33699	16	1·225	12·027	33773	13	23·540	19·914	33964	8	18·345	5·799	34038	10	1·691	12·024
33700	12	4·136	12·800	33774	22	23·621	19·016	33965	13	18·918	5·284	34039	9	4·814	12·667
33701*	42	4·256	12·364	33775	42	24·975	19·062	33966	9	23·581	5·195	34040	9	7·587	12·508
33702	11	4·864	12·737	33776	29	0·673	20·928	33967	9	25·562	5·799	34041	17	10·673	12·078
33703	10	5·384	12·038	33777	15	6·370	20·562	33968	11	3·398	6·487	34042*	21	12·640	12·059
33704	10	8·220	12·417	33778	11	6·377	20·360	33969	20	3·547	6·795	34043	10	16·117	12·364
33705	10	9·234	12·012	33779	12	7·395	20·395	33970	8	6·599	6·999	34044	11	17·216	12·265
33706	32	16·455	12·572	33780	10	11·993	20·084	33971	10	10·984	6·962	34045	9	19·280	12·934
33707	10	21·075	12·253	33781	30	13·311	20·371	33972	7	13·251	6·352	34046	12	5·185	13·654
33708*	22	21·492	12·130	33782	10	16·436	20·816	33973	12	15·825	6·769	34047	10	12·250	13·256
33709	22	0·221	13·697	33783	13	20·842	20·101	33974	22	18·117	6·189	34048	10	15·046	13·290
33710	25	10·206	13·751	33784	17	20·920	20·895	33975	10	21·516	6·360	34049	20	15·662	13·337
33711	10	14·519	13·894	33785*	34	22·027	20·972	33976	9	23·694	6·604	34050	26	15·947	13·474
33712	13	17·400	13·683	33786	10	24·054	20·975	33977	12	24·786	6·968	34051	9	16·322	13·816
33713	12	18·068	13·618	33787	11	3·693	21·904	33978	9	0·323	7·334	34052	22	18·916	13·974
33714	10	20·559	13·342	33788	21	4·299	21·817	33979	12	1·079	7·751	34053	20	20·537	13·502
33715	22	0·872	14·355	33789	28	7·822	21·959	33980	10	4·095	7·129	34054	10	0·904	14·675
33716	22	1·746	14·787	33790	10	10·561	21·463	33981*	30	7·138	7·614	34055	11	3·489	14·752
33717	14	2·537	14·000	33791	11	12·445	21·593	33982	10	7·193	7·508	34056	10	6·381	14·366
33718	25	3·984	14·053	33792	10	12·896	21·687	33983	11	8·654	7·777	34057	7	7·952	14·176
33719	9	9·281	14·182	33793	10	13·429	21·403	33984	10	8·736	7·796	34058	10	10·633	14·116
33720	9	10·426	14·350	33794	20	13·907	21·973	33985	10	10·237	7·917	34059	10	10·874	14·252
33721	10	14·300	14·571	33795	12	15·964	21·085	33986	21	10·867	7·773	34060	10	11·313	14·662
33722	11	14·841	14·148	33796	17	16·646	21·100	33987	12	14·827	7·151	34061	10	12·018	14·907
33723	10	15·945	14·377	33797	28	18·864	21·292	33988	8	16·060	7·233	34062*	30	15·703	14·078
33724	11	23·605	14·603	33798	10	19·876	21·955	33989	22	18·040	7·690	34063	8	18·375	14·584
33725	10	23·730	14·937	33799*	48	3·032	22·000	33990	8	20·917	7·785	34064	9	21·892	14·638
33726	11	2·357	15·003	33800	22	8·072	22·498	33991	8	22·769	7·199	34065	10	1·031	15·003
33727	20	5·705	15·569	33801	13	8·696	22·925	33992	12	23·196	7·556	34066	8	2·571	15·902
33728	12	6·308	15·344	33802	10	14·268	22·939	33993	8	23·484	7·221	34067	20	4·832	15·089
33729	14	9·926	15·238	33803	10	15·335	22·672	33994	11	25·874	7·048	34068	10	4·838	15·323
33730	13	11·982	15·148	33804	10	17·225	22·747	33995	10	2·626	8·026	34069	8	5·694	15·488
33731	10	12·195	15·289	33805	11	17·814	22·968	33996*	19	4·783	8·047	34070	8	8·509	15·274
33732	13	16·411	15·566	33806	22	22·581	22·680	33997	8	5·388	8·378	34071	9	9·313	15·998
33733	28	21·121	15·801	33807	32	1·855	23·393	33998	9	5·851	8·622	34072	8	9·567	15·998
33734	10	21·689	15·500	33808	13	2·762	23·066	33999	9	5·966	8·913	34073	10	14·044	15·283
33735	10	23·515	15·965	33809	11	3·545	23·958	34000	12	7·719	8·088	34074	9	18·834	15·301
33736	10	23·945	15·968	33810	11	7·125	23·834	34001	19	13·371	8·818	34075	10	19·141	15·310
33737	9	25·255	15·850	33811	14	9·631	23·838	34002	8	13·372	8·240	34076	9	0·830	16·035
33738	14	2·277	16·530	33812	11	14·746	23·348	34003	10	14·716	8·055	34077	10	1·259	16·033
33739	23	2·629	16·192	33813	30	15·472	23·221	34004	20	15·273	8·270	34078	9	2·883	16·751
33740	10	5·452	16·331	33814	13	15·942	23·238	34005	18	17·009	8·660	34079	19	4·597	16·956
33741	16	10·348	16·477	33815	10	16·086	23·741	34006	23	19·704	8·947	34080	9	4·982	16·672
33742	22	12·198	16·855	33816	11	17·162	23·524	34007	8	22·441	8·525	34081	8	5·805	16·187
33743	11	14·963	16·166	33817	14	20·051	23·129	34008	13	23·042	8·216	34082	8	10·509	16·980
33744	10	15·327	16·483	33818	35	0·537	24·563	34009	10	24·590	8·755	34083	8	19·166	16·447
33745	10	21·108	16·339	33819*	56	3·016	24·601	34010	9	3·569	9·354	34084	8	21·121	16·291
33746	18	21·482	16·891	33820	11	7·915	24·090	34011	20	7·064	9·084	34085	8	25·661	16·807
33747	10	25·561	16·700	33821	18	9·169	24·136	34012	10	10·625	9·672	34086	12	0·404	17·480
33748	32	0·864	17·369	33822*	31	11·235	24·830	34013*	20	11·037	9·753	34087	9	4·048	17·210
33749	10	9·928	17·786	33823*	34	12·167	24·784	34014	7	12·719	9·132	34088	11	4·187	17·513
33750	11	15·992	17·893	33824	10	12·476	24·139	34015	10	12·994	9·818	34089	8	7·496	17·195
33751	10	16·000	17·656	33825	11	15·722	24·348	34016	10	19·896	9·368	34090	9	8·890	17·540
33752	10	16·054	17·369	33826	12	15·812	24·800	34							

34105	12	0°026	19°302	34179	12	21°972	25°684	34250	13	19°240	6°981	34324	11	11°949	14°266	34398*	30	0°807	22°102
34106	10	0°894	19°986	34180	12	22°144	25°963	34251	18	19°678	6°096	34325	9	19°155	14°490	34399	20	3°231	22°512
34107	14	0°968	19°090					34252	8	20°938	6°094	34326	11	21°177	14°487	34400	9	11°419	22°955
34108*	26	2°322	19°121					34253	12	21°185	6°112	34327	8	25°983	14°560	34401	11	13°658	22°969
34109	10	4°583	19°858					34254	13	23°482	6°316	34328	7	5°626	15°806	34402	8	14°377	22°770
34110	9	7°665	19°048					34255	7	25°288	6°220	34329	10	5°900	15°504	34403	10	17°805	22°836
34111	11	8°197	19°840					34256	15	0°753	7°083	34330	8	5°922	15°321	34404	14	20°225	22°590
34112	9	9°801	19°444					34257	10	1°846	7°140	34331	10	17°697	15°937	34405	11	22°211	22°696
34113	9	11°339	19°294					34258	12	3°006	7°405	34332	12	18°915	15°538	34406	8	23°391	22°557
34114	20	15°084	19°233					34259	19	7°425	7°200	34333*	26	19°640	15°296	34407	12	1°693	23°100
34115	12	15°319	19°807					34260	20	8°506	7°054	34334	12	23°848	15°802	34408	22	3°146	23°426
34116	9	17°716	19°702					34261	10	8°916	7°323	34335	13	25°347	15°464	34409	12	4°693	23°993
34117	13	21°222	19°428					34262	8	17°291	7°034	34336	11	1°859	16°901	34410	12	8°426	23°769
34118*	28	21°749	19°308					34263	22	18°741	7°184	34337	12	2°684	16°508	34411	12	8°585	23°855
34119	20	24°728	19°304					34264	10	20°255	7°584	34338	10	5°658	16°353	34412	17	8°757	23°938
34120	13	3°776	20°712					34265	10	21°053	7°261	34339	8	6°709	16°710	34413	11	9°915	23°322
34121	12	3°886	20°821					34266	10	0°598	8°877	34340	8	7°673	16°519	34414	9	10°788	23°742
34122	8	5°731	20°574					34267*	24	2°083	8°184	34341	11	13°468	16°162	34415	8	11°519	23°170
34123	15	8°262	20°187					34268	8	4°641	8°700	34342	15	15°198	16°769	34416*	32	12°494	23°025
34124	8	8°684	20°058					34269	8	4°748	8°821	34343	9	16°616	16°086	34417	12	14°380	23°152
34125*	18	9°816	20°627					34270	22	10°603	8°941	34344*	34	20°570	16°330	34418	8	15°679	23°485
34126*	38	10°280	20°232					34271*	26	11°405	8°023	34345	17	20°753	16°477	34419	24	19°864	23°028
34127	8	12°326	20°571					34272	10	18°901	8°357	34346	25	21°035	16°616	34420	11	20°185	23°602
34128	17	13°710	20°064					34273	8	21°418	8°764	34347	8	5°011	17°966	34421	9	21°363	23°903
34129	8	17°820	20°297					34274	13	22°350	8°542	34348	8	5°808	17°846	34422	12	22°147	23°834
34130	8	18°255	20°476					34275	11	25°157	8°619	34349	9	9°889	17°947	34423	18	22°266	23°852
34131	8	18°571	20°336					34276	10	1°020	9°186	34350	17	12°708	17°893	34424	9	24°019	23°073
34132	9	19°288	20°683					34277	8	7°464	9°197	34351*	20	13°571	17°894	34425	12	25°953	23°424
34133	10	20°275	20°946					34278	23	11°686	9°081	34352*	27	13°685	17°307	34426	20	0°196	24°079
34134	24	20°998	20°396					34279	8	16°147	9°086	34353	12	14°427	17°394	34427*	23	8°956	24°116
34135	11	1°417	21°041					34280	8	20°106	9°128	34354	9	14°526	17°547	34428	12	20°846	24°447
34136	10	6°310	21°556					34281*	60	4°110	10°970	34355	18	18°482	17°339	34429	12	22°510	24°713
34137	10	8°244	21°175					34282	7	6°304	10°526	34356	12	22°048	17°326	34430	20	6°604	25°505
34138	7	8°286	21°242					34283	12	7°286	10°735	34357	8	23°321	17°735	34431*	55	7°588	25°993
34139	12	10°794	21°399					34284	11	8°129	10°731	34358	12	24°445	17°332	34432	12	8°823	25°752
34140	10	12°490	21°499					34285	21	8°765	10°002	34359	12	25°416	17°809	34433	12	12°222	25°817
34141	10	13°915	21°869					34286	7	10°543	10°542	34360	22	25°918	17°614	34434	9	13°177	25°407
34142	20	15°398	21°367					34287	12	12°707	10°781	34361	8	4°423	18°652	34435	8	16°599	25°088
34143	10	19°030	21°400					34288	12	15°665	10°718	34362	22	4°876	18°590	34436	18	16°825	25°828
34144*	28	21°963	21°549					34289	9	18°980	10°712	34363	22	6°451	18°973	34437	20	17°255	25°109
34145	9	22°745	21°986					34290	17	21°846	10°360	34364	6	8°315	18°194	34438	10	18°763	25°829
34146*	27	24°490	21°984					34291	9	22°617	10°761	34365	24	14°653	18°170	34439	19	18°842	25°286
34147	12	4°085	22°846					34292	15	2°949	11°616	34366	8	16°071	18°453	34440	13	18°912	25°332
34148	10	5°642	22°013					34293	10	3°646	11°683	34367*	24	17°211	18°221	34441	14	20°361	25°307
34149	10	7°864	22°720					34294	11	4°444	11°208	34368	16	19°876	18°225	34442	13	24°675	25°894
34150	12	10°157	22°369					34295	9	6°111	11°828	34369	11	21°586	18°517	34443	15	24°731	25°794
34151	8	14°816	22°031					34296	12	11°852	11°633	34370	13	23°530	18°376				
34152	10	15°317	22°147					34297	9	12°189	11°391	34371	17	0°983	19°419				
34153	18	16°968	22°888					34298	8	19°944	11°934	34372	8	3°218	19°276				
34154	10	20°301	22°545					34299*	48	23°889	11°054	34373	14	6°739	19°724				
34155	10	21°392	22°173					34300	22	24°157	11°058	34374	9	11°912	19°954				
34156	12	7°545	23°771					34301	10	25°314	11°777	34375	14	17°971	19°696				
34157*	32	14°331	23°057					34302	12	2°797	12°788	34376	19	20°587	19°033				
34158	10	17°705	23°452					34303*	41	8°511	12°094	34377	10	21°765	19°880				
34159	10	23°413	23°288					34304	8	10°743	12°681	34378	12	1°276	20°505				
34160	20	23°835	23°945					34305	30	15°731	12°778	34379	12	2°811	20°168				
34161	10	25°349	23°002					34306	7	20°608	12°301	34380	8	6°401	20°221				
34162*	20	5°870	24°003					34307	13	21°638	12°643	34381	12	7°722	20°475				
34163	12	9°807	24°629					34308	12	25°039	12°983	34382	10	12°108	20°077				
34164	14	12°697	24°197					34309	12	3°731	13°396	34383*	44	18°200	20°041				
34165	9	12°801	24°918					34310	8	4°365	13°664	34384	20	20°701	20°462				
34166	9	16°846	24°641					34311	21	4°408	13°083	34385	8	23°024	20°354				
34167	12	18°802	24°754					34312	14	6°307	13°821	34386	14	2°358	21°328				
34168	18	18°944	24°935					34313	8	10°586	13°294	34387	12	4°943	21°982				
34169	12	2°915	25°150					34314	12	10°795	13°200	34388	8	8°921	21°175				
34170	20	4°290	25°792					34315	21	17°746	13°956	34389	8	9°588	21°892				
34171	13	5°835	25°414					34316	12	18°197	13°433	34390	12	12°527	21°990				
34172	10	7°516	25°393					34317	9	19°627	13°756	34391	13	17°451	21°950				
34173	12	8°030	25°824					34318*	22	24°041	13°677	34392	11	18°669	21°659				
34174*	32	14°054	25°557					34319	7	5°380	14°895	34393	14	19°607	21°004				
34175	10	14°900	25°406					34320	12	6°977	14°415	34394	11	20°155	21°931				
34176	8	15°692	25°732					34321*	20	7°906	14°966	34395	8	20°315	21°581				
34177	12	17°573	25°275					34322*	29	9°749	14°239	34396	10	23°743	21°549				
34178	1																		

34506	12	4°969	1°291	34580	9	24°772	6°662	34654	12	1°536	15°735	34728	16	23°191	20°052	34807	11	13°076	0°151
34507	10	8°709	1°450	34581	11	2°280	7°662	34655	10	2°867	15°315	34729*	37	24°918	20°840	34808	12	17°255	0°945
34508	10	11°025	1°781	34582	10	4°536	7°749	34656	8	4°766	15°168	34730	11	25°614	20°483	34809	10	17°921	0°616
34509	12	22°615	1°406	34583	8	6°292	7°595	34657	10	6°448	15°396	34731*	54	3°687	21°609	34810	10	18°273	0°013
34510	19	24°007	1°008	34584	8	8°241	7°270	34658	16	9°445	15°303	34732	11	3°745	21°170	34811	12	20°044	0°712
34511	10	25°590	1°756	34585*	40	14°600	7°327	34659	10	9°456	15°001	34733	21	9°911	21°407	34812	19	23°575	0°000
34512	12	4°437	2°752	34586	8	16°177	7°038	34660	12	9°470	15°880	34734	8	11°793	21°486	34813	31	1°512	1°117
34513	11	5°715	2°643	34587	16	19°171	7°507	34661	18	14°835	15°835	34735	9	21°577	21°794	34814	17	1°583	1°914
34514*	31	9°347	2°918	34588	16	19°239	7°548	34662	12	18°602	15°490	34736	9	22°602	21°332	34815	20	2°560	1°964
34515*	30	9°556	2°205	34589	17	19°334	7°907	34663	20	18°756	15°296	34737*	26	25°600	21°861	34816	17	3°805	1°142
34516	9	12°403	2°486	34590	9	20°345	7°032	34664	9	22°515	15°215	34738	12	3°448	22°063	34817	10	7°472	1°551
34517	21	13°253	2°070	34591*	31	24°041	7°908	34665	8	23°743	15°216	34739	12	6°746	22°168	34818	12	10°348	1°904
34518	9	13°610	2°243	34592	9	24°299	7°894	34666	8	24°707	15°004	34740	10	8°222	22°248	34819	10	12°833	1°705
34519*	32	14°060	2°358	34593	15	24°766	7°635	34667	8	24°982	15°431	34741	12	9°110	22°218	34820	10	14°056	1°107
34520*	31	14°604	2°787	34594	8	25°235	7°144	34668	10	25°267	15°902	34742	8	18°462	22°475	34821	9	14°275	1°509
34521	15	14°687	2°685	34595	10	1°215	8°896	34669	12	25°785	15°340	34743	12	21°722	22°845	34822	11	15°409	1°961
34522	8	15°402	2°012	34596	9	4°665	8°032	34670	10	0°037	16°101	34744	9	22°999	22°067	34823	13	16°161	1°342
34523	8	16°473	2°517	34597*	34	6°580	8°326	34671	9	3°074	16°852	34745	19	23°249	22°553	34824	10	16°571	1°613
34524	11	18°091	2°447	34598*	40	6°607	8°339	34672	9	4°636	16°146	34746*	61	23°334	22°771	34825	9	19°485	1°764
34525	9	18°189	2°269	34599	11	7°543	8°519	34673	15	6°648	16°839	34747	12	2°291	23°683	34826	10	20°487	1°342
34526	10	19°865	2°965	34600	19	12°618	8°192	34674	7	7°063	16°837	34748	8	6°815	23°456	34827	9	1°978	2°365
34527	13	20°268	2°280	34601	11	14°101	8°815	34675	8	9°838	16°725	34749	20	7°530	23°923	34828	14	2°415	2°611
34528	9	21°095	2°277	34602	18	15°825	8°715	34676	9	17°734	16°568	34750	10	7°632	23°147	34829	20	4°238	2°659
34529	12	23°976	2°561	34603*	20	19°594	8°635	34677	10	19°615	16°169	34751	8	8°071	23°935	34830	20	4°669	2°245
34530	12	25°976	2°211	34604	8	20°608	8°732	34678	10	20°820	16°007	34752	10	8°100	23°692	34831	19	6°742	2°553
34531	11	3°264	3°003	34605	8	21°205	8°445	34679	8	24°594	16°508	34753	8	9°220	23°715	34832	10	7°165	2°748
34532*	20	3°360	3°062	34606	10	23°757	8°649	34680	11	0°667	17°620	34754	7	10°022	23°193	34833	20	8°056	2°020
34533*	51	5°593	3°131	34607	12	25°029	8°838	34681	19	2°145	17°876	34755	20	12°906	23°379	34834	8	12°578	2°390
34534	10	10°686	3°839	34608	7	3°538	9°929	34682	10	3°901	17°531	34756	20	16°430	23°565	34835	10	14°228	2°969
34535	12	11°466	3°254	34609	10	5°984	9°127	34683	10	7°860	17°101	34757	20	3°633	24°249	34836	9	14°255	2°110
34536*	30	11°599	3°058	34610*	30	11°865	9°189	34684	10	10°672	17°752	34758	20	4°369	24°776	34837	7	14°863	2°801
34537	14	12°396	3°267	34611	8	17°367	9°862	34685	9	15°288	17°319	34759	13	9°373	24°800	34838	10	15°534	2°191
34538	22	14°994	3°746	34612	12	17°588	9°947	34686	8	18°445	17°095	34760	8	9°794	24°686	34839	18	16°416	2°615
34539	10	17°210	3°507	34613*	21	19°552	9°061	34687	8	20°430	17°417	34761	8	13°382	24°669	34840	11	17°089	2°533
34540	14	18°726	3°879	34614*	22	24°388	9°557	34688	9	23°745	17°355	34762*	24	16°113	24°429	34841	10	19°237	2°179
34541	8	19°025	3°975	34615	10	4°083	10°485	34689	9	25°826	17°879	34763	10	17°639	24°820	34842	11	20°250	2°335
34542	11	24°633	3°466	34616	10	8°262	10°902	34690	10	1°648	18°080	34764*	61	4°609	25°246	34843	12	23°393	2°671
34543	8	11°114	4°419	34617*	70	21°870	10°750	34691	10	2°683	18°867	34765	12	9°023	25°715	34844	18	0°657	3°640
34544	10	13°896	4°942	34618	7	23°358	10°469	34692	10	2°923	18°870	34766	10	9°181	25°199	34845	12	6°308	3°295
34545	15	17°464	4°496	34619	13	0°260	11°355	34693*	21	3°199	18°799	34767	10	11°977	25°605	34846	10	7°640	3°688
34546*	38	20°425	4°859	34620	8	7°712	11°756	34694*	22	5°169	18°562	34768	9	17°277	25°592	34847	10	9°522	3°644
34547*	23	21°024	4°465	34621*	33	9°975	11°320	34695	9	5°643	18°425	34769	10	20°174	25°304	34848	10	10°419	3°640
34548	6	21°319	4°514	34622	14	13°796	11°132	34696	12	7°355	18°925	34770	18	20°429	25°938	34849	17	10°490	3°640
34549	22	21°402	4°505	34623	8	23°916	11°663	34697	10	8°326	18°360	34771	17	24°523	25°488	34850	10	10°551	3°138
34550	24	21°816	4°272	34624	8	1°429	12°049	34698	10	12°617	18°819	34772	13	24°772	25°254	34851	8	11°989	3°147
34551	8	22°366	4°823	34625	10	7°698	12°095	34699	10	13°958	18°761					34852	8	14°689	3°175
34552	23	23°714	4°946	34626	9	10°256	12°035	34700	7	13°980	18°081					34853	8	14°809	3°012
34553	12	2°715	5°690	34627	10	10°557	12°726	34701	12	14°444	18°479					34854	10	15°721	3°068
34554	12	4°256	5°519	34628	15	13°086	12°535	34702	10	19°895	18°471					34855	10	17°880	3°948
34555	8	5°008	5°064	34629	10	14°219	12°091	34703	10	24°966	18°946					34856	14	23°442	3°412
34556	18	6°212	5°591	34630	20	17°753	12°465	34704	12	3°455	19°279					34857	8	5°446	4°901
34557	12	8°123	5°287	34631*	22	21°671	12°189	34705	13	6°452	19°435					34858	11	8°160	4°034
34558	12	9°073	5°120	34632*	14	25°531	12°606	34706	8	8°345	19°492					34859	10	9°542	4°855
34559	10	13°149	5°080	34633*	13	0°193	13°973	34707	13	9°990	19°926					34860	9	10°695	4°006
34560	11	13°782	5°045	34634	11	1°179	13°259	34708	10	13°421	19°425					34861	9	12°232	4°243
34561	12	18°376	5°031	34635	22	2°726	13°327	34709	10	14°905	19°647					34862	10	12°696	4°701
34562	10	19°507	5°532	34636	9	5°501	13°432	34710	9	19°402	19°567					34863	11	13°672	4°989
34563	8	20°231	5°687	34637	10	7°453	13°490	34711	7	20°776	19°578					34864*	31	13°815	4°958
34564	7	21°642	5°379	34638	7	7°859	13°265	34712	12	23°605	19°366					34865	19	15°615	4°169
34565*	30	22°914	5°441	34639	9	12°935	13°028	34713*	27	2°397	20°322					34866	9	15°859	4°688
34566*	68	23°430	5°441	34640*	24	16°603	13°239	34714	10	7°046	20°015					34867	10	16°085	4°375
34567	22	23°741	5°680	34641	10	19°276	13°479	34715	9	8°893	20°301					34868	11	16°659	4°110
34568	10	3°583	6°178	34642	18	20°125	13°336	34716	9	9°615	20°925					34869	11	18°109	4°620
34569	9	6°127	6°302	34643	9	23°038	13°254	34717	8	10°383	20°403					34870	10	23°810	4°405
34570	10	9°165	6°693	34644	8	25°063	13°822	34718	12	10°922	20°483					34871	12	24°308	4°437
34571	8	10°978	6°380	34645	8	2°													

34881	9	17°711	5°046	34955	8	7°520	11°383	35029	16	1°481	16°064	35103	10	6°863	21°597
34882*	27	17°902	5°885	34956	12	8°455	11°489	35030	12	4°010	16°031	35104	10	11°905	21°391
34883*	30	18°209	5°626	34957	17	8°703	11°284	35031	8	9°159	16°536	35105	10	14°771	21°114
34884	9	19°983	5°128	34958	10	9°150	11°791	35032*	32	10°445	16°353	35106	10	15°015	21°764
34885*	20	20°370	5°500	34959	9	9°176	11°639	35033	12	12°790	16°908	35107	12	15°641	21°351
34886	10	20°710	5°616	34960	10	9°994	11°774	35034	10	14°762	16°236	35108	7	15°651	21°960
34887	10	23°218	5°709	34961	19	13°030	11°183	35035	12	15°641	16°109	35109	10	18°582	21°797
34888	11	25°421	5°368	34962	10	15°670	11°824	35036	9	15°759	16°941	35110	10	20°117	21°608
34889	23	0°651	6°865	34963	10	18°367	11°352	35037	9	17°605	16°120	35111	10	20°553	21°116
34890	21	0°846	6°834	34964	9	20°803	11°693	35038	10	19°521	16°391	35112	9	22°290	21°920
34891	12	4°805	6°962	34965	8	21°535	11°822	35039	11	24°041	16°414	35113	6	22°894	21°413
34892	11	4°981	6°215	34966	8	24°815	11°248	35040	10	25°645	16°186	35114	12	24°670	21°143
34893	11	5°563	6°441	34967	15	24°891	11°255	35041	9	2°073	17°391	35115	12	24°775	21°144
34894	10	6°536	6°441	34968*	50	1°695	12°765	35042	11	2°256	17°641	35116	10	25°409	21°327
34895	10	9°718	6°120	34969	7	3°509	12°231	35043	12	2°368	17°121	35117*	40	1°905	22°016
34896	14	18°120	6°839	34970	10	5°647	12°215	35044	10	2°822	17°415	35118	10	4°255	22°496
34897	19	19°790	6°739	34971	9	6°369	12°108	35045	16	3°078	17°616	35119	12	4°334	22°510
34898	9	20°018	6°378	34972	10	8°564	12°375	35046	18	3°674	17°695	35120	12	5°053	22°339
34899	9	20°671	6°685	34973	9	9°400	12°768	35047	9	4°325	17°521	35121	10	6°342	22°857
34900	10	23°169	6°951	34974*	19	16°825	12°261	35048	18	4°485	17°021	35122	8	12°521	22°492
34901	21	0°855	7°806	34975	10	21°696	12°284	35049	20	4°864	17°706	35123	10	12°840	22°028
34902	16	2°223	7°170	34976	11	22°890	12°597	35050	12	11°223	17°366	35124	10	12°959	22°376
34903	6	6°121	7°900	34977	10	23°733	12°636	35051	9	12°850	17°200	35125	10	14°575	22°740
34904	11	6°612	7°346	34978	10	24°923	12°285	35052	11	13°517	17°257	35126	9	15°936	22°420
34905	8	6°650	7°480	34979	10	0°981	13°746	35053	9	15°295	17°628	35127	11	16°326	22°941
34906	10	7°275	7°573	34980	12	1°243	13°986	35054	10	15°453	17°877	35128	9	16°701	22°690
34907	18	12°165	7°768	34981	12	4°795	13°126	35055	12	16°200	17°673	35129	10	17°166	22°404
34908*	30	12°180	7°787	34982	12	9°582	13°031	35056	10	16°684	17°112	35130	10	18°005	22°844
34909	9	13°131	7°788	34983	10	11°964	13°635	35057	9	22°088	17°946	35131	9	19°366	22°962
34910	19	14°944	7°918	34984	17	13°545	13°361	35058	10	23°222	17°545	35132	10	20°088	22°572
34911	10	19°232	7°411	34985	10	14°415	13°375	35059	11	2°066	18°034	35133	20	3°664	23°135
34912	12	20°284	7°141	34986	10	14°512	13°968	35060	19	5°062	18°382	35134	12	4°362	23°769
34913	10	24°380	7°820	34987	8	15°660	13°849	35061	13	5°141	18°619	35135*	23	5°470	23°165
34914	9	24°582	7°395	34988	11	16°930	13°081	35062	10	7°671	18°328	35136	9	5°531	23°618
34915	11	25°619	7°267	34989*	28	20°670	13°016	35063	9	8°233	18°370	35137	10	9°158	23°457
34916*	50	0°134	8°091	34990	9	20°817	13°060	35064	9	8°792	18°000	35138	10	13°317	23°375
34917	17	0°393	8°073	34991	10	25°233	13°563	35065	10	10°375	18°383	35139*	24	19°261	23°425
34918	10	5°664	8°638	34992	20	25°400	13°308	35066	10	11°040	18°078	35140	12	20°435	23°307
34919*	23	9°258	8°250	34993	12	1°708	14°998	35067	9	11°369	18°643	35141	9	20°925	23°335
34920*	40	11°722	8°369	34994	27	1°848	14°513	35068	10	15°110	18°894	35142	10	21°152	23°483
34921	10	11°891	8°524	34995	9	5°036	14°459	35069	11	15°347	18°911	35143	16	2°726	24°443
34922	13	12°222	8°566	34996	19	7°194	14°567	35070	9	17°332	18°870	35144	10	7°983	24°275
34923	10	14°027	8°816	34997*	23	8°280	14°319	35071	10	18°277	18°923	35145*	22	8°216	24°492
34924	7	18°161	8°835	34998	21	8°711	14°175	35072	9	22°865	18°518	35146	12	10°214	24°166
34925	9	19°718	8°760	34999	19	9°046	14°076	35073	10	23°568	18°707	35147	9	11°543	24°800
34926	9	21°880	8°019	35000	9	9°989	14°320	35074	9	23°764	18°776	35148*	24	11°993	24°860
34927	12	24°982	8°568	35001	10	14°169	14°056	35075	9	24°834	18°606	35149	10	14°250	24°604
34928	12	25°095	8°410	35002*	29	15°250	14°198	35076	16	25°670	18°915	35150	11	16°764	24°395
34929	9	25°570	8°794	35003	12	17°493	14°618	35077	17	1°225	19°115	35151	10	18°909	24°085
34930	20	25°954	8°345	35004	11	17°938	14°251	35078	12	2°915	19°900	35152	9	19°238	24°194
34931*	26	0°505	9°735	35005	12	19°108	14°261	35079	10	6°926	19°487	35153	12	19°649	24°708
34932	16	1°135	9°003	35006	8	19°220	14°894	35080	12	7°535	19°703	35154	11	21°191	24°786
34933	12	4°534	9°807	35007	12	22°470	14°292	35081*	20	12°518	19°317	35155	10	22°445	24°778
34934	7	5°836	9°675	35008	19	22°725	14°162	35082	12	13°657	19°965	35156	33	0°886	25°661
34935	10	7°117	9°181	35009	12	25°285	14°404	35083	10	14°905	19°010	35157	25	1°125	25°425
34936	10	7°839	9°164	35010	17	0°906	15°176	35084	10	18°341	19°945	35158	17	2°504	25°459
34937	11	7°971	9°281	35011	11	1°187	15°596	35085	9	22°195	19°797	35159	20	2°826	25°705
34938	10	8°689	9°535	35012	16	1°991	15°495	35086	8	22°253	19°458	35160	20	3°083	25°185
34939	22	15°115	9°340	35013	10	3°117	15°738	35087	10	23°777	19°069	35161	13	4°605	25°775
34940	10	15°834	9°175	35014	10	4°807	15°166	35088	15	1°896	20°641	35162	18	5°204	25°663
34941	8	16°577	9°186	35015	21	4°960	15°641	35089	21	3°328	20°152	35163	10	14°630	25°945
34942	10	17°999	9°169	35016	10	6°566	15°899	35090	7	5°468	20°290	35164	18	19°314	25°606
34943	6	20°763	9°984	35017	10	7°065	15°394	35091	8	8°442	20°011				
34944	8	24°863	9°492	35018	10	8°034	15°170	35092*	25	14°220	20°615				
34945	15	2°894	10°781	35019	10	11°721	15°717	35093*	33	17°265	20°521				
34946	8	4°402	10°134	35020	8	11°878	15°179	35094	10	19°211	20°441				
34947	9	6°416	10°122	35021	12	15°117	15°215	35095	10	19°824	20°816				
34948	20	16°006	10°718	35022	9	16°890	15°825	35096	9	20°588	20°136				
34949	22	16°330	10°439	35023	12	17°875	15°907	35097	7	21°081	20°799				
34950	8	22°332	10°349	35024	10	19°190	15°887	35098	9	21°451	20°069				
34951	10	22°776	10°125	35025	12	19°666	15°922	35099	10	22°964	20°152				
34952	14	23°669	10°232	35026	10	22°160	15°523	35100	12	23°282	20°782				
34953	10	24°554	10°869	35027	9	23°850	15°608	35101*	60	1°205	21°006				
34954	8	25°225	10°111	35028	13	0°816	16°683	35102	10	5°469	21°117				

R. A. 12^h 36^m

Plate 1776; 1901 Apr. 1.

Provisional Constants.

A	B	C
-00045	+00518	-2320

D	E	F
-00526	-00039	+0302

Mag. = 15.4 - 1.25 $\sqrt{d}$

No.	d	x	y
35201	10	8·841	0·750
35202	9	9·695	0·552
35203	11	18·721	0·479
35204*	22	19·186	0·562
35205	10	20·002	0·661
35206	12	22·566	0·489
35207	10	23·857	0·987
35208	16	24·013	0·945
35209	14	25·449	0·649
35210	26	2·189	1·555
35211*	22	4·805	1·136
35212	10	9·161	1·941
35213	12	9·560	1·634
35214*	22	9·971	1·594
35215	8	15·043	1·748
35216	9	15·970	1·006
35217	8	19·405	1·966
35218	12	7·083	2·264
35219	12	7·412	2·805
35220	9	9·000	2·855
35221	9	16·249	2·950
35222	10	16·666	2·700
35223*	19	18·069	2·390
35224	8	18·157	2·415
35225	10	24·643	2·609
35226	13	25·425	2·884
35227	37	2·170	3·055
35228	12	10·576	3·407
35229	13	14·351	3·469
35230	9	16·460	3·125
35231	12	17·969	3·001
35232	12	20·015	3·336
35233	9	21·670	3·394
35234	12	0·292	4·574
35235	19	0·331	4·268
35236	10	2·519	4·889
35237	12	3·418	4·971
35238	10	6·460	4·883
35239*	30	7·043	4·627
35240	10	8·615	4·290
35241	19	9·150	4·246
35242	21	14·146	4·174
35243	9	15·777	4·206
35244	10	18·460	4·809
35245	10	19·452	4·948
35246	7	19·542	4·176
35247	15	23·191	4·549
35248	13	1·425	5·484
35249	9	2·857	5·524
35250	17	4·057	5·211
35251	10	5·153	5·917
35252	9	6·837	5·148
35253	10	8·044	5·409
35254	9	8·539	5·304
35255	9	8·868	5·380
35256	8	9·254	5·214

35257	7	11°179	5°515	35331	9	1°315	10°232	35405	11	9°308	16°659	35479	12	2°418	22°640	35604	10	6°087	0°288
35258	10	11°179	5°438	35332	9	6°028	10°836	35406	17	11°205	16°867	35480	12	3°450	22°505	35605	12	7°313	0°468
35259	11	11°691	5°105	35333	8	8°745	10°682	35407	14	16°795	16°147	35481	10	3°773	22°230	35606	11	7°399	0°009
35260	10	12°285	5°343	35334	10	11°201	10°395	35408	12	17°337	16°521	35482*	24	3°888	22°342	35607*	42	12°527	0°630
35261	9	13°612	5°265	35335	10	12°387	10°246	35409*	29	23°908	16°454	35483	7	8°018	22°301	35608	10	15°985	0°808
35262	10	14°437	5°952	35336*	20	22°162	10°036	35410	10	24°730	16°738	35484	20	8°202	22°410	35609*	20	16°029	0°347
35263	20	15°249	5°496	35337	9	25°064	10°452	35411	11	24°905	16°510	35485	9	9°024	22°075	35610	10	18°747	0°984
35264	9	17°293	5°661	35338	16	0°661	11°001	35412	10	25°203	16°268	35486*	20	11°045	22°217	35611	13	19°555	0°115
35265	10	20°390	5°205	35339	11	0°926	11°375	35413	9	25°360	16°357	35487	8	13°550	22°027	35612	20	20°549	0°405
35266	9	20°602	5°428	35340	22	1°001	11°381	35414	9	3°788	17°208	35488	9	15°471	22°530	35613	11	20°683	0°213
35267	12	23°755	5°424	35341	11	3°753	11°235	35415	20	3°825	17°045	35489	19	20°255	22°060	35614	10	21°701	0°872
35268	11	25°678	5°902	35342	10	6°076	11°500	35416	9	8°659	17°951	35490	9	20°635	22°530	35615	20	2°319	1°289
35269	9	5°435	6°148	35343	10	7°307	11°114	35417	9	10°504	17°346	35491	10	22°466	22°607	35616	20	4°835	1°346
35270	10	6°416	6°449	35344	11	7°765	11°645	35418	17	11°415	17°854	35492	8	22°968	22°751	35617	10	6°836	1°877
35271	9	9°945	6°235	35345	10	12°071	11°475	35419	10	11°729	17°332	35493	10	23°397	22°504	35618	20	7°167	1°120
35272	13	10°985	6°966	35346	11	15°115	11°089	35420	8	11°849	17°115	35494	9	23°699	22°199	35619	10	8°828	1°431
35273	8	12°264	6°015	35347	12	15°225	11°666	35421	10	18°316	17°159	35495	10	24°145	22°390	35620	10	10°853	1°780
35274	6	13°165	6°785	35348	7	17°899	11°599	35422	7	20°318	17°460	35496	10	25°771	22°924	35621	10	14°586	1°435
35275	10	13°235	6°710	35349	9	20°083	11°484	35423	9	20°501	17°842	35497	20	2°463	23°601	35622	12	17°795	1°800
35276	18	14°778	6°745	35350	10	20°164	11°699	35424	12	20°821	17°916	35498	12	8°235	23°214	35623	28	19°316	1°285
35277	10	15°805	6°156	35351*	30	20°982	11°435	35425	10	22°392	17°096	35499	12	8°284	23°778	35624	14	23°367	1°039
35278	9	21°765	6°832	35352	11	21°460	11°967	35426	16	0°019	18°924	35500	14	9°872	23°168	35625	12	23°441	1°001
35279	7	21°940	6°850	35353	10	22°089	11°009	35427	11	1°086	18°734	35501	10	10°870	23°879	35626	20	1°405	2°982
35280	10	23°041	6°746	35354*	27	24°103	11°522	35428	8	6°291	18°057	35502	9	11°041	23°515	35627	8	7°468	2°264
35281	20	0°428	7°958	35355	10	25°299	11°181	35429	9	6°521	18°694	35503	10	13°985	23°266	35628*	30	9°306	2°674
35282	16	0°622	7°528	35356	17	1°056	12°414	35430	11	7°604	18°209	35504	9	14°175	23°217	35629	10	10°381	2°635
35283	15	1°656	7°381	35357	15	8°231	12°666	35431	12	10°050	18°526	35505*	41	17°469	23°848	35630	10	12°226	2°010
35284	12	4°453	7°190	35358	9	9°230	12°835	35432*	21	10°729	18°485	35506	9	17°896	23°560	35631	12	13°254	2°013
35285	10	5°199	7°278	35359	11	13°225	12°566	35433	9	12°657	18°739	35507	10	18°326	23°884	35632	9	13°579	2°144
35286	13	8°522	7°265	35360	8	15°065	12°300	35434	10	14°165	18°402	35508	8	20°632	23°956	35633	13	14°668	2°679
35287	9	8°667	7°394	35361	10	15°401	12°398	35435*	21	16°727	18°878	35509	8	20°659	23°828	35634	8	16°256	2°276
35288	11	9°239	7°740	35362	13	17°040	12°864	35436	9	19°302	18°282	35510	18	25°340	23°907	35635	9	17°059	2°511
35289	10	10°595	7°364	35363	13	19°697	12°079	35437	9	19°527	18°691	35511	10	6°279	24°109	35636	20	20°021	2°345
35290	9	10°671	7°665	35364	7	22°765	12°933	35438	8	20°046	18°443	35512	12	6°615	24°245	35637	10	7°916	3°233
35291	9	13°047	7°415	35365	8	23°595	12°366	35439	10	20°290	18°678	35513	11	7°018	24°342	35638	8	14°653	3°126
35292	10	13°052	7°093	35366*	35	23°827	12°240	35440	11	20°662	18°451	35514	16	13°383	24°001	35639	13	18°532	3°481
35293	8	14°669	7°845	35367	9	25°280	12°435	35441	10	21°829	18°491	35515	9	17°672	24°021	35640	9	19°913	3°370
35294	8	19°971	7°731	35368	9	1°391	13°684	35442	12	23°298	18°597	35516	10	20°990	24°060	35641	10	21°865	3°020
35295	10	24°759	7°453	35369	26	1°551	13°425	35443	8	25°875	18°905	35517	9	23°456	24°738	35642	12	25°031	3°215
35296	11	25°624	7°116	35370	8	6°811	13°410	35444	22	0°038	19°215	35518	12	24°599	24°828	35643	12	4°457	4°951
35297	21	1°153	8°534	35371	12	10°533	13°554	35445	22	1°928	19°025	35519	13	4°755	25°477	35644	12	7°792	4°644
35298	13	1°638	8°909	35372	10	10°604	13°682	35446	12	5°686	19°315	35520	10	6°023	25°809	35645	9	7°925	4°481
35299	20	2°010	8°454	35373	8	12°630	13°443	35447	11	9°380	19°414	35521	10	6°165	25°749	35646	10	8°749	4°110
35300	12	3°206	8°858	35374	9	21°268	13°795	35448	9	14°290	19°891	35522	8	14°080	25°895	35647	13	9°129	4°475
35301	9	3°664	8°612	35375	9	22°200	13°164	35449	9	15°040	19°236	35523	9	15°259	25°555	35648	10	9°746	4°590
35302	9	6°623	8°804	35376	8	22°868	13°245	35450	8	18°244	19°095	35524	11	15°539	25°729	35649	10	10°621	4°875
35303	9	6°789	8°149	35377	18	1°459	14°521	35451	7	20°770	19°766	35525	10	15°812	25°909	35650	10	14°365	4°363
35304	10	14°354	8°449	35378	8	5°122	14°592	35452*	31	21°936	19°289	35526	10	19°074	25°922	35651	12	18°165	4°806
35305	11	14°396	8°335	35379	17	9°756	14°619	35453	8	22°027	19°835					35652	10	18°215	4°474
35306	10	17°304	8°621	35380	10	17°019	14°481	35454	10	24°175	19°792					35653	10	18°496	4°910
35307	10	17°839	8°362	35381	10	17°531	14°775	35455	13	25°081	19°153					35654	9	18°595	4°197
35308	8	18°396	8°084	35382	9	24°179	14°929	35456	9	6°995	20°077					35655	9	20°103	4°014
35309	12	20°200	8°492	35383	10	6°925	15°414	35457	10	8°465	20°261					35656*	38	21°270	4°941
35310	9	21°730	8°629	35384	7	7°238	15°340	35458	8	14°098	20°099					35657	10	22°449	4°946
35311	10	22°469	8°232	35385	9	7°250	15°665	35459	9	16°616	20°937					35658	10	23°016	4°624
35312	9	23°350	8°640	35386	9	9°525	15°224	35460	7	19°314	20°098					35659*	40	23°610	4°729
35313	8	24°181	8°773	35387	9	9°533	15°916	35461	6	21°207	20°097					35660	12	25°251	4°363
35314	9	25°794	8°959	35388	12	11°938	15°586	35462	10	24°125	20°998					35661	10	4°939	5°942
35315	10	3°484	9°786	35389	8	12°812	15°310	35463	19	0°973	21°275					35662	12	5°138	5°731
35316	11	3°645	9°725	35390	13	16°799	15°214	35464	13	1°715	21°440					35663	21	7°074	5°873
35317	10	12°410	9°455	35391	10	17°344	15°559	35465	11	4°780	21°392					35664	13	7°422	5°277
35318*	41	12°817	9°218	35392	11	19°021	15°960	35466	10	4°850	21°314					35665	15	8°296	5°496
35319	9	13°530	9°075	35393	10	19°195	15°301	35467	18	5°355	21°949					35666	10	10°362	5°089
35320	10	13°819	9°125	35394	9	19°766	15°351	35468	11	6°146	21°657					35667	10	14°135	5°917
35321	10	13°915	9°911	35395	9	20°161	15°284	35469	9	10°879	21°720								

35678	9	16°762	6°441	35752	12	18°868	10°570	35826*	23	21°260	17°368	35900	11	20°230	24°675	36035	10	16°030	3°988
35679	8	16°980	6°195	35753	10	19°200	10°636	35827	10	22°769	17°742	35901*	28	24°649	24°756	36036	12	21°991	3°398
35680*	12	17°081	6°560	35754	8	20°571	10°109	35828	21	24°618	17°705	35902	20	2°974	25°460	36037	10	23°299	3°885
35681	10	18°453	6°661	35755	12	24°266	10°961	35829	9	13°328	18°437	35903	19	3°449	25°170	36038	10	24°570	3°775
35682	10	19°865	6°310	35756*	42	0°269	11°649	35830	10	15°038	18°113	35904	12	7°762	25°988	36039	12	25°630	3°750
35683	9	20°519	6°594	35757	12	1°458	11°285	35831	8	15°861	18°476	35905	8	8°390	25°845	36040	12	25°792	3°767
35684	8	21°626	6°939	35758	10	4°439	11°019	35832	10	16°188	18°391	35906	9	9°499	25°156	36041	10	25°968	3°823
35685	12	23°471	6°576	35759	9	10°499	11°360	35833	8	16°895	18°857	35907	10	9°680	25°092	36042	22	1°509	4°462
35686	11	24°025	6°230	35760	12	11°010	11°587	35834	12	17°507	18°065	35908	10	10°426	25°033	36043	10	2°580	4°868
35687	11	25°359	6°832	35761	14	14°286	11°987	35835	8	19°155	18°802	35909	20	11°271	25°025	36044	10	7°180	4°915
35688	14	0°835	7°568	35762*	20	16°540	11°406	35836	8	19°169	18°782	35910	9	16°787	25°177	36045	9	12°609	4°037
35689	16	1°693	7°209	35763	10	23°760	11°705	35837	9	20°921	18°779	35911	11	17°380	25°428	36046	10	13°768	4°924
35690*	30	4°760	7°207	35764*	60	0°009	12°374	35838	9	23°116	18°838	35912	13	19°269	25°966	36047	18	16°822	4°596
35691	11	5°844	7°474	35765*	30	6°831	12°436	35839	20	24°281	18°039	35913	10	20°591	25°310	36048	21	17°092	4°589
35692	12	6°041	7°485	35766	10	7°047	12°261	35840	9	24°315	18°605	35914	13	23°403	25°602	36049	10	17°510	4°763
35693	12	8°789	7°625	35767	8	8°960	12°755	35841	22	1°413	19°257	35915	12	24°911	25°782	36050	10	18°950	4°923
35694	9	9°120	7°281	35768	9	12°114	12°184	35842	20	2°516	19°258	35916	21	25°872	25°675	36051	21	21°622	4°205
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35696	9	10°280	7°148	35770	8	21°783	12°485	35844	8	8°672	19°242					36053	10	23°372	4°920
35697	12	12°536	7°616	35771	10	22°132	12°149	35845	8	12°210	19°641					36054	19	0°522	5°346
35698	12	16°563	7°494	35772	9	25°610	12°735	35846	14	13°090	19°768					36055	10	5°690	5°270
35699	12	17°327	7°445	35773	11	3°039	13°955	35847	9	13°503	19°271					36056	10	6°909	5°877
35700	11	19°190	7°016	35774	10	3°504	13°534	35848	13	13°999	19°707					36057	11	10°970	5°664
35701	16	19°337	7°389	35775	12	4°635	13°105	35849	8	17°056	19°267					36058	12	12°183	5°089
35702	12	19°845	7°283	35776	10	5°946	13°355	35850	7	17°624	19°980					36059	10	15°038	5°803
35703	10	20°512	7°708	35777	9	7°523	13°830	35851	10	21°351	19°655					36060	11	21°476	5°376
35704	10	20°569	7°016	35778	10	8°095	13°280	35852	9	22°824	19°648					36061	13	23°753	5°401
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35706	11	23°156	7°421	35780	11	9°993	13°720	35854	7	9°051	20°516					36063	10	2°607	6°380
35707	14	0°292	8°899	35781*	70	17°709	13°888	35855	10	9°905	20°384					36064	13	2°996	6°884
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35709	10	3°754	8°351	35783	10	19°708	13°275	35857	8	14°891	20°564					36066	9	6°074	6°925
35710*	20	5°405	8°020	35784	10	6°257	14°955	35858	22	18°399	20°770					36067	12	10°099	6°194
35711*	31	7°920	8°796	35785	10	6°424	14°490	35859*	23	18°783	20°941					36068	10	13°239	6°718
35712	9	15°927	8°415	35786	12	10°503	14°006	35860	8	19°923	20°821					36069	11	13°550	6°897
35713	11	18°184	8°162	35787*	70	11°335	14°081	35861	12	23°140	20°959					36070	8	15°168	6°505
35714	10	18°523	8°255	35788	11	11°370	14°496	35862	12	0°496	21°119					36071	10	20°255	6°898
35715	8	20°937	8°815	35789	10	15°588	14°274	35863	15	3°000	21°301					36072	15	8°405	7°039
35716	8	23°064	8°304	35790	7	16°580	14°966	35864	12	5°286	21°910					36073	21	10°137	7°773
35717	11	23°559	8°840	35791	10	20°800	14°420	35865	18	6°945	21°874					36074	11	14°265	7°962
35718	16	24°637	8°322	35792	8	21°221	14°235	35866	11	15°202	21°855					36075	10	16°060	7°421
35719*	33	1°439	9°165	35793	10	22°740	14°964	35867	12	21°425	21°601					36076	10	17°470	7°224
35720	10	3°170	9°742	35794	12	22°752	14°781	35868	9	22°930	21°452					36077	10	18°824	7°898
35721	9	6°315	9°256	35795	22	1°764	15°502	35869	9	23°540	21°511					36078	10	19°680	7°142
35722	12	6°454	9°925	35796	9	7°109	15°150	35870*	20	23°730	21°111					36079	32	0°935	8°428
35723	10	10°286	9°344	35797	11	7°235	15°824	35871	12	23°831	21°691					36080	10	2°408	8°251
35724	14	10°357	9°809	35798	9	7°316	15°493	35872	23	0°553	22°513					36081	16	4°331	8°212
35725	9	11°551	9°453	35799	11	14°828	15°338	35873	12	4°780	22°938					36082	11	4°699	8°940
35726	20	14°579	9°039	35800	9	17°589	15°007	35874	9	12°547	22°119					36083*	30	12°703	8°818
35727	18	14°640	9°472	35801	10	18°117	15°445	35875	10	15°023	22°311					36084	19	12°727	8°822
35728	11	15°877	9°955	35802	10	23°207	15°706	35876	8	19°036	22°415					36085	20	14°435	8°903
35729	20	15°921	9°531	35803	13	23°379	15°875	35877	8	22°445	22°496					36086	10	20°905	8°317
35730	11	18°660	9°842	35804*	30	24°131	15°476	35878	12	24°834	22°146					36087	11	25°956	8°730
35731	9	20°370	9°559	35805*	50	0°183	16°585	35879	17	3°585	23°025					36088	22	0°111	9°447
35732	12	20°576	9°746	35806	19	1°012	16°849	35880	12	6°216	23°315					36089	15	0°880	9°564
35733	10	23°802	9°335	35807	18	1°181	16°618	35881	9	9°026	23°838					36090	13	1°253	9°723
35734	9	24°573	9°460	35808	12	1°475	16°369	35882	10	9°284	23°875					36091	14	3°175	9°927
35735	12	24°945	9°620	35809	10	1°632	16°454	35883	9	15°869	23°366					36092*	20	4°616	9°822
35736	13	3°127	10°615	35810	9	4°694	16°644	35884*	23	16°700	23°609					36093	10	5°657	9°699
35737	12	6°114	10°382	35811	10	5°470	16°589	35885	10	17°823	23°570					36094	9	6°139	9°107
35738	10	6°310	10°617	35812	12	5°878	16°394	35886	12	18°190	23°330					36095	10	6°163	9°723
35739	10	8°650	10°025	35813	10	7°508	16°535	35887	8	19°391	23°375					36096*	22	12°392	9°727
35740	9	9°845	10°010	35814	12	7°555	16°585	35888	8	20°678	23°041					36097	19	15°525	9°073
35741	9	9°999	10°470	35815	11	8°085	16°789	35889	10	23°293	23°641					36098	10	22°059	9°278
35742	10	10°521	10°757	35816*	30	9°061	16°891	35890	10	23°410	23°521					36099	11	25°836	9°803
35743	10	10°973	10°302	35817	10	13°094	16°536	35891	20	1°778	24°002					36100	10	5°316	10°630
35744	10	12°191	10°618	35818	12	14°235	16°315	35892	20	6°724	24°475					36101	10	7°495	10°870
35745	12	12°551	10°496	35819	7	21°400	16°060	35893	16	7°524	24°890					36102	10	12°821	10°508
35746	9	14°565	10°410	35820	10	3°890	17°539	35894	18	7°691									

36109	22	0°588	11°070	36183	10	25°547	18°470	36257*	42	25°752	24°824	36343	21	4°170	5°071	36417	12	19°685	13°631
36110	13	7°173	11°638	36184*	42	2°755	19°358	36258	24	2°334	25°766	36344	12	7°962	5°585	36418	12	19°714	13°601
36111	10	10°837	11°813	36185	12	2°985	19°873	36259	22	4°380	25°003	36345	19	9°382	5°626	36419	12	22°475	13°096
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36114	10	24°472	11°485	36188	10	20°851	19°599	36262	9	15°679	25°403	36348	12	19°120	5°790	36422	18	4°261	14°830
36115	15	4°058	12°130	36189	10	21°551	19°635	36263	11	16°223	25°649	36349	19	24°849	5°676	36423	11	5°606	14°551
36116	10	12°252	12°412	36190	9	23°184	19°903	36264	11	17°867	25°038	36350	19	25°012	5°083	36424*	63	11°219	14°935
36117	9	18°520	12°345	36191	10	3°100	20°033	36265*	22	17°995	25°496	36351	15	25°553	5°032	36425*	56	13°135	14°091
36118	18	19°286	12°987	36192	12	5°769	20°885					36352	10	25°805	5°400	36426*	30	15°320	14°669
36119	10	23°211	12°432	36193	13	6°231	20°655					36353	11	2°420	6°850	36427	8	18°800	14°483
36120	10	6°540	13°141	36194	13	6°420	20°843					36354	21	8°866	6°575	36428*	22	22°593	14°334
36121	11	9°617	13°736	36195	10	11°301	20°397					36355*	40	13°481	6°751	36429	9	22°912	14°993
36122	11	11°150	13°502	36196	9	12°559	20°979					36356	12	14°274	6°745	36430	24	0°217	15°233
36123	10	11°980	13°198	36197	8	13°448	20°393					36357	12	16°125	6°245	36431	15	2°309	15°420
36124*	41	12°658	13°107	36198	9	14°503	20°999					36358	11	16°151	6°959	36432	12	4°678	15°357
36125	12	13°986	13°559	36199*	45	14°930	20°162					36359	6	18°481	6°149	36433	10	6°039	15°470
36126	10	14°000	13°259	36200	10	16°081	20°872					36360	20	18°810	6°256	36434	10	8°590	15°142
36127	10	18°982	13°575	36201	10	17°148	20°770					36361	10	19°265	6°666	36435	13	9°000	15°927
36128	10	20°602	13°255	36202	8	19°783	20°440					36362	12	20°990	6°484	36436	10	16°918	15°829
36129	10	21°524	13°240	36203	9	20°311	20°900					36363	11	22°522	6°996	36437	13	17°144	15°953
36130	16	23°685	13°278	36204	9	21°269	20°696					36364	12	2°435	7°648	36438	20	17°490	15°750
36131	10	3°919	14°276	36205	12	21°562	20°462					36365	9	20°271	7°874	36439	10	20°117	15°723
36132	11	13°052	14°345	36206	11	22°207	20°899					36366	12	22°020	7°459	36440	12	23°964	15°277
36133	10	14°419	14°198	36207	22	25°937	20°906					36367	20	23°100	7°183	36441	22	25°491	15°735
36134	11	15°894	14°649	36208*	37	0°147	21°224					36368	14	1°830	8°875	36442	18	1°528	16°055
36135	9	17°800	14°040	36209	23	0°255	21°804					36369	12	5°155	8°871	36443	30	3°271	16°239
36136	10	20°369	14°869	36210	10	3°951	21°681					36370	15	6°921	8°080	36444	12	9°743	16°250
36137	10	20°417	14°578	36211	10	4°411	21°644					36371	12	10°485	8°259	36445	14	11°983	16°080
36138	9	21°136	14°200	36212	10	4°930	21°157					36372	12	10°671	8°835	36446	10	14°545	16°543
36139	10	24°511	14°572	36213	10	5°451	21°070					36373	9	14°071	8°100	36447	12	15°020	16°400
36140*	22	25°765	14°506	36214	12	12°216	21°813					36374	8	18°099	8°876	36448	12	15°651	16°190
36141*	34	0°496	15°584	36215	10	14°774	21°234					36375	8	22°050	8°200	36449	12	16°489	16°526
36142	11	3°210	15°854	36216	11	14°876	21°991					36376	12	25°147	8°371	36450	8	18°996	16°195
36143	13	4°078	15°555	36217	10	18°221	21°160					36377	10	25°223	8°478	36451	13	19°291	16°738
36144	12	4°680	15°554	36218	9	19°132	21°789					36378	11	1°737	9°951	36452	10	25°187	16°089
36145	19	11°917	15°274	36219	10	21°431	21°719					36379	13	2°754	9°844	36453	10	6°111	17°454
36146	10	12°594	15°174	36220	10	22°169	21°577					36380	12	7°457	9°109	36454	9	6°670	17°385
36147	10	23°288	15°534	36221	11	22°910	21°757					36381	11	7°721	9°465	36455	12	7°310	17°727
36148	11	24°183	15°044	36222	10	22°970	21°511					36382*	30	10°146	9°827	36456	9	9°021	17°195
36149	12	25°471	15°900	36223	10	23°703	21°548					36383	12	12°304	9°492	36457	10	9°076	17°813
36150*	49	3°231	16°664	36224	8	24°979	21°616					36384	10	13°884	9°589	36458	13	13°348	17°016
36151	9	5°215	16°235	36225	22	1°263	22°248					36385	20	13°895	9°650	36459	19	16°885	17°420
36152	9	6°131	16°442	36226*	53	3°081	22°253					36386	12	20°906	9°525	36460	12	23°665	17°506
36153	10	9°611	16°475	36227	10	5°023	22°224					36387	12	21°508	9°373	36461*	80	23°967	17°589
36154	12	18°270	16°989	36228*	40	14°987	22°239					36388	8	21°510	9°590	36462	12	24°717	17°084
36155	20	23°922	16°598	36229	9	16°977	22°393					36389	10	22°104	9°880	36463	13	1°663	18°625
36156	40	1°002	17°812	36230	11	17°721	22°280					36390	12	24°990	9°182	36464	9	2°133	18°884
36157	10	3°184	17°525	36231	10	19°058	22°344					36391	12	25°625	9°135	36465	20	6°715	18°231
36158	10	3°293	17°808	36232	10	7°861	23°091					36392	10	5°996	10°151	36466	9	12°083	18°571
36159	10	4°089	17°120	36233	11	9°345	23°075					36393	12	9°449	10°428	36467	9	15°851	18°810
36160	10	7°044	17°489	36234	10	11°731	23°277					36394	13	10°533	10°728	36468	13	19°130	18°361
36161*	22	7°800	17°062	36235*	52	12°371	23°208					36395	18	14°398	10°175	36469	9	19°521	18°748
36162	9	12°800	17°227	36236	10	12°782	23°258					36396	12	18°545	10°795	36470	12	22°186	18°254
36163	10	13°324	17°688	36237	10	13°478	23°859					36397	13	20°209	10°525	36471	13	3°083	19°794
36164	11	13°711	17°079	36238	11	20°449	23°819					36398	8	22°511	10°864	36472	12	5°940	19°871
36165	10	16°471	17°107	36239	9	22°391	23°234					36399	11	5°844	11°619	36473	11	8°599	19°237
36166	11	17°982	17°507	36240*	46	1°102	24°862					36400	12	7°896	11°223	36474	10	10°640	19°031
36167	19	21°880	17°150	36241	22	3°587	24°422					36401	12	8°562	11°216	36475	8	17°226	19°604
36168	11	23°756	17°352	36242	10	4°358	24°291					36402	12	10°101	11°502	36476	10	19°922	19°417
36169	32	0°670	18°147	36243	9	6°858	24°043					36403	12	10°840	11°910	36477	10	20°279	19°581
36170	12	0°708	18°714	36244	10	8°015	24°405					36404	20	11°204	11°324	36478	10	20°312	19°891
36171*	22	2°461	18°409	36245	11	8°654	24°481					36405	12	24°012	11°946	36479	9	24°171	19°741
36172	12	3°828	18°218	36246	10	8°878	24°346					36406	12	25°053	11°493	36480	10	25°224	19°662
36173	10	4°242	18°320	36247	10	9°116	24°088					36407	12	25°825	11°015	36481*	38	3°679	20°815
36174	12	5°854	18°955	36248*	22	9°931	24°559					36408	13	25°826	11°946	36482	9	5°519	20°526
36175	10	9°738	18°186	36249	10	11°642	24°443					36409*	14	7°511	12°560	36483	18	6°071	20°355
36176	11	14°784	18°608	36250	12	14°346	24°383					36410	14	10°390	12°690	36484	10	8°649	20°257
36177	11	16°287	18°491	36251	10	15°886	24°195					36411	17						

36491	13	19°815	20°835					36657	19	16°631	8°610	36731	12	7°275	18°751				
36492	12	22°109	20°475					36658	10	6°846	9°293	36732	19	7°404	18°734				
36493	9	22°750	20°859	R. A. 13^h 12^m															
36494	10	24°070	20°255	Plate 1786; 1901 May 14.															
36495	27	2°115	21°047	<i>Provisional Constants.</i>															
36496	12	3°710	21°567																
36497	10	9°310	21°555																
36498*	32	10°386	21°921																
36499	10	11°871	21°776																
36500	12	16°132	21°311																
36501	12	20°340	21°551																
36502	12	22°031	21°670																
36503	10	23°470	21°658																
36504	20	24°401	21°577																
36505	22	2°654	22°045																
36506	14	2°680	22°874																
36507	12	4°099	22°866																
36508	11	5°452	22°635																
36509	12	7°102	22°507																
36510*	30	8°287	22°661																
36511	10	9°401	22°715																
36512	15	9°403	22°661																
36513*	21	13°806	22°014																
36514	10	20°269	22°439																
36515	12	24°195	22°775																
36516	10	24°650	22°809																
36517	9	5°216	23°176																
36518	12	6°570	23°870																
36519	9	8°470	23°030																
36520	10	9°440	23°331																
36521	9	10°010	23°999																
36522	8	10°862	23°674																
36523	13	21°074	23°003																
36524*	36	21°130	23°618																
36525	12	21°469	23°522																
36526	26	0°010	24°296																
36527*	49	2°029	24°970																
36528	15	4°320	24°401																
36529*	29	6°181	24°210																
36530	12	11°295	24°966																
36531	17	13°885	24°729																
36532	12	14°055	24°212																
36533	12	16°291	24°111																
36534	10	16°425	24°385																
36535	12	17°463	24°300																
36536	12	22°711	24°751																
36537	20	3°895	25°704																
36538	16	4°994	25°705																
36539	12	5°953	25°442																
36540	11	11°028	25°071																
36541	12	13°671	25°487																
36542	16	13°742	25°665																
36543	12	15°415	25°807																
36544	10	16°015	25°640																
36545	12	16°887	25°556																
36546	10	17°446	25°862																
36547*	32	20°888	25°889																
36548	23	25°100	25°868																

36657	19	16°631	8°610	36731	12	7°275	18°751				
36658	10	6°846	9°293	36732	19	7°404	18°734				
36659	9	10°556	9°684	36733	7	7°597	18°275	R. A. 13^h 21^m			
36660	12	12°431	9°461	36734	10	9°350	18°365	Plate 1787; 1901 May 14.			
36661	10	19°271	9°009	36735	12	10°070	18°955	<i>Provisional Constants.</i>			
36662	20	19°665	9°254	36736	11	15°601	18°128				
36663	10	22°753	9°538	36737	12	19°501	18°058				
36664	20	24°346	9°742	36738	10	21°741	18°706				
36665	9	25°646	9°750	36739*	22	23°707	18°649				
36666	9	2°250	10°719	36740	9	24°312	18°565				
36667	20	3°781	10°100	36741	13	24°487	18°293				
36668	9	4°160	10°387	36742	9	0°632	19°985				
36669*	12	8°074	10°142	36743	12	4°610	19°124				
36670	9	13°266	10°946	36744	7	6°417	19°786				
36671	12	18°148	10°978	36745	10	8°673	19°900				
36672	18	0°450	11°675	36746	7	13°408	19°875				
36673	10	1°483	11°210	36747*	23	16°417	19°691				
36674	12	2°266	11°650	36748	9	19°832	19°973				
36675*	29	2°668	11°284	36749	9	8°490	20°378				
36676	12	3°227	11°040	36750	11	10°840	20°159				
36677	10	5°690	11°294	36751	13	15°285	20°285				
36678	9	7°891	11°383	36752	12	15°664	20°180				
36679*	15	7°976	11°814	36753	8	16°215	20°467				
36680	19	8°519	11°982	36754*	31	16°679	20°648				
36681	10	10°461	11°812	36755	10	16°909	20°050				
36682	9	22°000	11°122	36756	10	17°121	20°175				
36683*	29	4°206	12°919	36757*	21	18°500	20°724				
36684	10	11°566	12°155	36758*	20	18°539	20°409				
36685	13	14°474	12°813	36759*	34	21°515	20°146				
36686*	34	16°336	12°370	36760*	21	25°738	20°317				
36687	10	18°495	12°793	36761	30	0°983	21°301				
36688	10	18°604	12°913	36762	19	8°107	21°110				
36689	13	23°782	12°021	36763	14	9°491	21°496				
36690	12	24°715	12°040	36764	10	9°822	21°429				
36691	9	25°473	12°022	36765	11	11°314	21°898				
36692	11	9°243	13°773	36766	10	14°946	21°080				
36693	13	16°852	13°000	36767	10	15°695	21°526				
36694	11	17°461	13°054	36768	10	23°928	21°322				
36695	12	18°376	13°910	36769	10	25°677	21°445				
36696	8	21°065	13°450	36770	15	0°795	22°504				
36697	9	22°261	13°676	36771*	28	4°408	22°916				
36698	19	11°440	14°457	36772	10	6°380	22°609				
36699	9	12°982	14°732	36773	10	18°708	22°697				
36700	9	13°494	14°746	36774	9	21°000	22°755				
36701	15	16°045	14°955	36775	20	21°269	22°090				
36702*	36	19°180	14°478	36776	12	4°430	23°216				
36703	10	22°727	14°460	36777	10	5°528	23°420				
36704	10	1°686	15°800	36778	12	11°421	23°819				
36705	25	1°986	15°441	36779	8	16°689	23°069				
36706	12	2°631	15°491	36780	19	17°385	23°084				
36707	8	4°814	15°260	36781	13	9°709	24°621				
36708	11	5°784	15°354	36782	8	11°570	24°031				
36709	18	9°792	15°148	36783*	26	17°693	24°350				
36710*	34	12°015	15°867	36784	7	20°874	24°685				
36711	19	14°220	15°839	36785	20	1°745	25°582				
36712	8	14°472	15°351	36786	9	7°569	25°183				
36713*	21	16°166	15°178	36787	11	17°103	25°170				
36714	12	17°736	15°404	36788	41	19°250	25°673				
36715	9	21°006	15°274	36789	10	23°465	25°605				
36716	11	22°562	15°780								
36717*	22	22°766	15°119								
36718	8	1°234	16°802								
36719	10	5°373	16°479								
36720	11	7°936	16°556								
36721	10	8°129	16°466								
36722	12	11°001	16°699								
36723	14	0°190	17°241								
36724*	100	0°490	17°320								
36725	13	3°260	17°366								
36726	25	5°499	17°092								
36727	8	8°616	17°009								
36728	12	11°888	17°259								
36729	12	12°388	17°086								
36730	11	3°064	18°685								

No.	d	x	y	No.	d	x	y
36801	30	1°619	0°535	36801	30	1°619	0°535
36802	20	8°591	0°790	36802	20	8°591	0°790
36803	9	17°138	0°121	36803	9	17°138	0°121
36804	10	19°350	0°191	36804	10	19°350	0°191
36805	12	1°808	1°414	36805	12	1°808	1°414
36806*	48	3°709	1°224	36806*	48	3°709	1°224
36807	13	9°214	1°152	36807	13	9°214	1°152
36808	15	13°045	1°128	36808	15	13°045	1°128
36809	10	16°470	1°650	36809	10	16°470	1°650
36810	10	22°546	1°725	36810	10	22°546	1°725
36811	12	23°612	1°262	36811	12	23°612	1°262
36812	8	25°151	1°472	36812	8	25°151	1°472
36813	23	25°721	1°753	36813	23	25°721	1°753
36814	14	0°269	2°198	36814	14	0°269	2°198
36815	16	2°230	2°451	36815	16	2°230	2°451
36816	17	16°600	2°221	36816	17	16°600	2°221
36817	9	17°106	2°447	36817	9	17°106	2°447
36818	11	18°895	2°078	36818	11	18°895	2°078
36819	13	19°077	2°729	36819	13	19°077	2°729
36820	22	21°149	2°366	36820	22	21°149	2°366
36821	13	22°493	2°869	36821	13	22°493	2°869
36822*	37	3°611	3°270	36822*	37	3°611	3°270
36823	10	4°941	3°812	36823	10	4°941	3°812
36824	23	8°672	3°382	36824	23	8°672	3°382
36825	13	11°749	3°395	36825	13	11°749	3°395
36826	10	15°265	3°794	36826	10	15°265	3°794
36827	19	15°595	3°812	36827	19	15°595	3°812
36828	12	17°711	3°662	36828	12	17°711	3°662
36829	10	23°489	3°439	36829	10	23°489	3°439
36830	29	0°785	4°236	36830	29	0°785	4°236
36831*	22	1°532	4°620	36831*	22	1°532	4°620
36832	19	10°876	4°814	36832	19	10°876	4°814
36833	17	11°272	4°463	36833	17	11°272	4°463
36834	10	15°025	4°352	36834	10	15°025	4°352
36835	17	18°541	4°315	36835	17	18°541	4°315
36836*	50	18°802	4°930	36836*	50	18°802	4°930
36837	22	20°597	4°478	36837	22	20°597	4°478

36857	18	16.227	7.216	36931	12	11.470	17.834	37057	10	8.787	9.164	37131	10	23.814	19.783
36858	21	17.561	7.469	36932	13	12.531	17.384	37058	9	11.172	9.664	37132	22	0.988	20.916
36859	20	19.297	7.240	36933	24	21.039	17.892	37059	8	18.301	9.262	37133	8	15.423	20.244
36860	9	21.346	7.992	36934	10	21.804	17.069	37060	8	22.957	9.093	37134	8	18.486	20.348
36861	11	22.871	7.913	36935	10	22.778	17.614	37061	10	1.021	10.598	37135	9	21.698	20.660
36862	7	25.254	7.251	36936	10	23.920	17.326	37062	22	3.106	10.653	37136	12	22.424	20.256
36863*	29	3.576	8.970	36937	10	25.080	17.927	37063	10	3.707	10.782	37137	21	23.783	20.851
36864	10	12.376	8.075	36938	12	0.427	18.722	37064*	27	4.625	10.192	37138	12	0.416	21.054
36865	10	15.546	8.566	36939	32	0.594	18.446	37065	10	16.679	10.206	37139	10	9.176	21.396
36866	10	17.525	8.854	36940	20	5.315	18.981	37066*	42	22.709	10.393	37140	21	11.125	21.310
36867	15	17.835	8.791	36941	10	7.491	18.667	37067	11	22.751	10.487	37141	9	14.270	21.223
36868	22	18.012	8.163	36942*	40	11.440	18.651	37068	22	0.099	11.806	37142	10	16.975	21.610
36869	10	19.613	8.988	36943	13	15.819	18.369	37069	10	5.811	11.462	37143	8	18.203	21.307
36870	10	20.330	8.635	36944	12	3.127	19.585	37070*	30	9.875	11.263	37144*	22	18.505	21.061
36871	11	21.905	8.055	36945	10	4.668	19.894	37071	8	10.577	11.089	37145	10	19.235	21.970
36872*	19	22.642	8.452	36946	12	10.610	19.093	37072	10	15.274	11.962	37146	13	20.944	21.992
36873	22	0.270	9.900	36947	12	12.826	19.494	37073	10	18.886	11.389	37147	9	21.578	21.735
36874	10	1.571	9.881	36948	9	25.430	19.090	37074	11	18.912	11.851	37148	9	22.416	21.460
36875	11	3.079	9.026	36949*	26	1.888	20.441	37075	9	19.672	11.140	37149	10	24.611	21.008
36876*	25	14.117	9.377	36950	12	5.665	20.384	37076	10	25.610	11.645	37150	11	25.683	21.743
36877	10	15.503	9.072	36951	9	10.195	20.019	37077	19	25.742	11.974	37151	13	2.931	22.500
36878	10	19.994	9.152	36952	21	12.497	20.939	37078	10	1.310	12.633	37152	10	6.651	22.679
36879*	32	20.226	9.390	36953	10	20.255	20.365	37079	21	3.940	12.722	37153	15	8.157	22.731
36880	20	1.942	10.035	36954	10	23.494	20.958	37080	12	8.821	12.184	37154	10	8.539	22.375
36881	12	2.881	10.089	36955	10	24.164	20.674	37081*	22	10.440	12.440	37155	9	11.275	22.636
36882	9	8.359	10.403	36956	19	24.737	20.543	37082	13	10.455	12.411	37156	10	11.885	22.126
36883	11	22.347	10.258	36957	22	0.098	21.488	37083	13	15.607	12.458	37157	10	12.784	22.809
36884	10	23.700	10.480	36958	12	1.852	21.572	37084	17	23.930	12.415	37158	11	14.991	22.360
36885	10	24.956	10.230	36959	10	6.046	21.483	37085	15	1.854	13.487	37159	9	15.611	22.558
36886*	33	20.256	11.000	36960	20	11.044	21.621	37086	11	8.348	13.875	37160*	22	21.242	22.810
36887	9	22.902	11.155	36961*	32	14.903	21.232	37087	9	10.090	13.292	37161	10	21.580	22.920
36888	21	24.014	11.421	36962	14	15.785	21.822	37088	11	11.895	13.176	37162	12	2.456	23.345
36889	21	0.690	12.186	36963	13	17.070	21.859	37089*	40	13.308	13.115	37163	10	3.851	23.239
36890	10	1.448	12.155	36964	10	18.796	21.713	37090	10	14.425	13.762	37164	22	4.076	23.735
36891	9	3.729	12.578	36965	13	20.247	21.714	37091*	29	1.572	14.952	37165	9	6.629	23.013
36892	12	6.039	12.099	36966	19	21.505	21.500	37092	10	2.443	14.623	37166	13	10.163	23.366
36893	11	20.068	12.755	36967	11	9.932	22.208	37093	14	4.827	14.662	37167	11	13.600	23.347
36894	10	23.139	12.723	36968	10	11.008	22.845	37094	10	9.772	14.511	37168	10	16.224	23.930
36895	8	24.300	12.711	36969	10	11.301	22.864	37095	10	10.535	14.743	37169	10	20.065	23.759
36896	10	25.207	12.269	36970	10	17.597	22.297	37096	10	20.178	14.608	37170	10	20.602	23.948
36897	10	4.695	13.846	36971*	32	21.305	22.248	37097	12	1.755	15.574	37171	7	22.319	23.625
36898	10	6.007	13.861	36972	10	5.962	23.329	37098	23	2.175	15.168	37172	19	0.546	24.593
36899	12	10.896	13.543	36973	17	7.669	23.891	37099	10	2.356	15.028	37173	10	2.753	24.071
36900	12	10.898	13.480	36974	22	15.603	23.894	37100*	20	3.349	15.129	37174*	12	12.064	24.978
36901	9	11.044	13.272	36975	10	19.561	23.283	37101	21	3.555	15.689	37175	10	12.064	24.029
36902	18	15.591	13.917	36976	10	23.315	23.834	37102	8	6.904	15.554	37176	10	14.961	24.137
36903	12	18.140	13.677	36977	14	13.209	24.782	37103	11	19.729	15.197	37177	9	16.067	24.843
36904	14	25.736	13.132	36978	13	18.518	24.085	37104	8	25.496	15.318	37178*	25	19.075	24.885
36905	27	2.911	14.550	36979*	31	19.320	24.187	37105	12	7.249	16.391	37179	9	20.327	24.113
36906	10	13.943	14.972	36980*	42	20.875	24.229	37106	13	7.481	16.905	37180	11	21.640	24.035
36907	11	17.414	14.864	36981	14	24.227	24.212	37107	18	18.384	16.928	37181	54	1.470	25.988
36908	10	17.983	14.482	36982	15	3.690	25.034	37108	9	19.213	16.401	37182	12	2.297	25.643
36909	15	18.646	14.535	36983*	32	4.787	25.217	37109	10	20.930	16.315	37183	17	2.864	25.111
36910	16	22.257	14.819	36984	14	5.762	25.962	37110	11	25.896	16.783	37184	10	9.856	25.969
36911	10	22.261	14.808	36985*	32	5.919	25.225	37111	11	2.252	17.493	37185	12	11.659	25.889
36912*	30	23.829	14.911	36986	15	6.692	25.807	37112	10	5.149	17.232	37186	10	13.130	25.882
36913*	33	25.426	14.593	36987	14	9.519	25.724	37113	10	5.997	17.547	37187	22	15.185	25.146
36914	21	3.420	15.393	36988	11	11.658	25.941	37114	9	9.024	17.170	37188	8	15.535	25.687
36915	21	5.820	15.800	36989	10	12.755	25.427	37115	10	10.748	17.923	37189	9	16.361	25.400
36916	10	5.852	15.154	36990	12	16.265	25.351	37116	15	11.046	17.559	37190	11	17.549	25.794
36917	10	12.391	15.918	36991	57	25.129	25.624	37117	10	19.898	17.110	37191	10	19.658	25.402
36918	12	18.911	15.637	36992	11	25.960	25.296	37044	10	15.274	6.780				
36919	12	20.262	15.025					37045	12	15.605	6.325				
36920	9	21.606	15.696					37046	10	22.842	6.337				
36921	10	23.081	15.792					37047	19	4.954	7.320				
36922	11	25.600	15.217					37048	12	9.591	7.310				
36923	12	4.281	16.592					37049	8	13.851	7.629				
36924	20	5.295	16.020					37050	16	19.925	7.191				
36925	10	13.700	16.440					37051	11	3.987	8.355				
36926	13	23.271	16.209					37052	12	5.846	8.551				
36927	21	2.751	17.216					37053	10	7.575	8.277				
36928	12	3.528	17.861					37054	21	10.786	8.452				
36929*	30	4.932	17.798					37055	12	14.088	8.463				
36930	10	5.292	17.793					37056	12	4.763	9.813				

R. A. 13^h 30^m

Plate 1788; 1901 May 14.

Provisional Constants.

A B C
-00041 +00532 -1913D E F
-00550 -00049 -0625

Mag. = 15.7 - 1.25√d

No.	d	x	y
37001	10	3.667	0.166
37002	10	13.554	0.814
37003	11	19.108	0.000
37004	13	2.363	1.279
37005	22	3.816	1.708
37006	10	4.439	1.063
37007	10	9.475	1.557
37008	13	17.584	1.964
37009	10	18.449	1.978
37010	10	19.045	1.980
37011	11	23.209	1.390
37012	10	23.272	1.443
37013*	42	25.062	1.657
37014	22	1.632	2.108
37015	22	4.234	2.962
37016	19	4.448	2.221
37017*	42	5.178	2.325
37018	20	6.254	2.172
37019	17	10.412	2.159
37020	12	11.417	2.300
37021	10	14.508	2.893
37022	10	15.739	2.273
37023	12	16.462	2.200
37024	6	19.217	2.581
37025	9	21.276	2.841
37026	10	21.981	2.891
37027	11	25.893	2.994
37028	10	10.044	3.287
37029	10	10.731	3.885
37030*	32	15.102	3.588
37031	10	15.650	3.542
37032	8	19.096	3.335
37033	10	19.337	3.065
37034	10	20.148	3.995
37035*	52	25.535	3.176
37036	12	2.912	4.874
37037*	34	21.426	4.622
37038	10	23.770	4.671
37039	12	14.380	5.672
37040	9	14.989	5.458
37041	10	16.003	5.149
37042	10	19.035	5.522
37043*	22	21.980	5.029
37044	10	15.274	6.780
37045	12	15.605	6.325
37046	10	22.842	6.337
37047	19	4.954	7.320
37048	12	9.591	7.310
37049	8	13.851	7.629
37050	16	19.925	7.191
37051	11	3.987	8.355
37052	12	5.846	8.551
37053	10	7.575	8.277
37054	21	10.786	8.452
37055	12	14.088	8.463
37056	12	4.763	9.813

R. A. 13^h 39^m

Plate 1557; 1900 May 7.

Provisional Constants.

A	B	C
-00028	+00536	-6047

D	E	F
-00515	-00035	-2667

Mag. = 14.7 - 1.02√d

No.	d	x	y
37201*	41	2.739	0.590
37202	12	8.656	0.635
37203	18	15.258	0.264
37204	20	15.772	0.048
37205	20	17.115	0.264
37206	12	19.749	0.959
37207*	49	24.240	0.820
37208*	54	0.615	1.585
37209	12	5.440	1.671
37210	11	5.470	1.658
37211	9	7.762	1.333
37212	11	10.326	1.950
37213	9	10.385	1.638
37214	19	11.416	1.371
37215	11	11.674	1.762
37216	21	13.936	1.457
37217	20	14.816	1.535
37218*	20	19.463	1.579
37219	9	19.526	1.031
37220	16	19.700	1.030
37221	20	22.765	1.893
37222	19	1.469	2.903
37223	8	6.211	2.403
37224	10	15.532	2.828
37225	9	17.783	2.850
37226	11	19.017	2.398
37227	12	21.095	2.756
37228	12	22.955	2.720
37229	18	24.157	2.426
37230*	60	1.115	3.095
37231	11	2.745	3.586
37232	17	5.510	3.849
37233	14	7.553	3.058
37234	11	9.736	3.537
37235	9	14.850	3.501
37236	12	16.394	3.916
37237	41	25.757	3.362
37238	20	3.687	4.390
37239	13	8.893	4.379
37240	17	9.240	4.234
37241	10	12.466	4.835
37242	20	12.737	4.295
37243	15	15.636	4.141
37244	7	16.250	4.326
37245	12	18.237	4.665
37246	8	19.115	4.700
37247	20	19.539	4.755
37248	8	23.797	4.055
37249	17	6.823	5.607
37250	12	9.190	5.371
37251	8	11.604	5.809
37252	12	12.036	5.504
37253	9	14.584	5.788
37254	26	16.317	5.148
37255	15	16.854	5.886
37256	7	19.263	5.326

37257	7	20.765	5.841	37331	9	5.824	15.439
37258	9	22.237	5.302	37332	16	6.234	15.736
37259	20	23.825	5.541	37333	20	6.590	15.440
37260	20	3.830	6.888	37334	8	9.702	15.820
37261	15	3.844	6.884	37335	7	12.827	15.684
37262	20	7.282	6.464	37336	9	13.730	15.354
37263	8	10.252	6.742	37337	18	15.416	15.997
37264	7	13.658	6.051	37338	7	22.560	15.844
37265	9	16.398	6.356	37339	24	25.712	15.119
37266	13	16.400	6.235	37340	18	1.718	16.695
37267	10	17.847	6.042	37341	11	2.594	16.962
37268	20	20.114	6.664	37342	11	4.456	16.570
37269	8	20.245	6.976	37343*	28	4.675	16.905
37270	9	22.275	6.674	37344	11	5.675	16.057
37271	11	25.762	6.741	37345	7	10.537	16.853
37272	9	3.353	7.738	37346	8	12.665	16.018
37273	8	8.976	7.588	37347	11	14.235	16.131
37274	8	11.666	7.463	37348	18	14.928	16.525
37275	27	18.055	7.790	37349	20	15.569	16.191
37276	10	24.486	7.037	37350	8	17.392	16.943
37277	10	7.450	8.927	37351	10	17.674	16.831
37278	9	9.109	8.162	37352	8	2.213	17.720
37279	9	12.214	8.090	37353	8	2.572	17.830
37280	21	16.823	8.112	37354	11	3.483	17.293
37281*	40	19.678	8.970	37355	12	4.535	17.266
37282	7	20.028	8.370	37356	8	5.314	17.838
37283	11	5.354	9.035	37357*	30	9.286	17.237
37284	12	9.045	9.953	37358	8	10.720	17.901
37285*	26	9.692	9.984	37359	8	16.505	17.180
37286	9	14.516	9.025	37360*	19	19.663	17.567
37287	24	15.841	9.016	37361*	40	20.354	17.959
37288	10	16.015	9.818	37362	20	2.111	18.766
37289*	39	18.434	9.370	37363	7	3.458	18.444
37290	20	20.376	9.929	37364	10	3.507	18.626
37291	15	21.438	9.931	37365	21	12.269	18.467
37292	18	24.204	9.625	37366	8	14.234	18.776
37293	21	2.434	10.388	37367	20	14.953	18.684
37294	11	3.367	10.279	37368	20	15.775	18.907
37295	7	4.165	10.625	37369	8	17.078	18.931
37296	15	8.545	10.737	37370	7	17.176	18.388
37297	15	13.726	10.320	37371	15	19.340	18.716
37298	17	16.682	10.024	37372	20	23.177	18.150
37299	14	1.342	11.563	37373	21	23.401	18.452
37300	22	1.477	11.887	37374	9	24.284	18.833
37301	9	4.892	11.797	37375	11	24.689	18.926
37302	9	5.444	11.804	37376	12	25.225	18.796
37303	8	9.020	11.814	37377	18	4.099	19.403
37304	9	10.721	11.857	37378	12	4.343	19.407
37305	9	12.092	11.248	37379	12	4.465	19.377
37306	13	19.218	11.937	37380*	51	4.700	19.580
37307*	20	20.576	11.112	37381	19	6.115	19.543
37308	9	23.352	11.377	37382	18	8.266	19.621
37309	24	25.043	11.889	37383	12	12.440	19.695
37310	9	25.666	11.573	37384	12	13.125	19.605
37311	13	4.775	12.485	37385	10	13.457	19.633
37312*	30	10.785	12.155	37386	12	16.097	19.381
37313	9	17.805	12.627	37387*	28	16.506	19.407
37314	15	18.500	12.651	37388	10	17.288	19.713
37315	9	20.426	12.498	37389	8	17.689	19.961
37316	15	21.842	12.059	37390	8	21.256	19.655
37317	15	25.226	12.489	37391	11	25.163	19.599
37318	10	4.654	13.214	37392	8	25.765	19.596
37319	8	4.659	13.097	37393	12	0.510	20.946
37320	11	5.492	13.534	37394	11	5.685	20.714
37321	12	12.409	13.481	37395	12	11.526	20.261
37322*	60	13.950	13.717	37396	8	14.474	20.403
37323	12	15.950	13.503	37397	6	16.186	20.851
37324	9	22.065	13.630	37398*	26	16.515	20.929
37325	10	2.797	14.142	37399	9	18.878	20.948
37326	8	5.942	14.526	37400	10	25.510	20.486
37327	8	9.333	14.325	37401	12	1.596	21.656
37328	17	25.527	14.142	37402	12	3.220	21.599
37329	31	25.858	14.392	37403	20	7.175	21.197
37330	9	3.538	15.910	37404*	40	9.511	21.173

37405	12	9.824	21.042	37517	12	16.904	1.639
37406	11	10.196	21.916	37518	10	17.350	1.332
37407	7	12.535	21.025	37519	10	18.414	1.568
37408	10	16.400	21.363	37520	20	25.774	1.353
37409	12	17.422	21.655	37521	25	0.359	2.904
37410	19	5.557	22.423	37522	32	2.439	2.469
37411	8	8.585	22.937	37523	20	7.442	2.110
37412	10	8.759	22.560	37524	10	9.088	2.417
37413	19	10.763	22.345	37525	10	9.770	2.535
37414	9	10.825	22.526	37526	20	11.017	2.597
37415	10	11.017	22.107	37527	13	14.975	2.098
37416	8	20.207	22.901	37528	22	15.429	2.340
37417	10	20.610	22.442	37529	12	17.953	2.007
37418*	30	2.723	23.017	37530	12	22.950	2.188
37419	9	4.356	23.459	37531	13	22.966	2.528
37420	12	5.386	23.358	37532	13	25.921	2.315
37421	9	7.675	23.758	37533*	36	1.976	3.813
37422	7	7.918	23.431	37534	12	9.848	3.490
37423	8	8.281	23.339	37535	10	16.974	3.986
37424	20	18.539	23.802	37536	9	18.485	3.200
37425	10	20.158	23.893	37537	11	23.211	3.589
37426	21	20.210	23.939	37538	11	23.585	3.079
37427	9	22.166	23.035	37539	12	3.768	4.111
37428	22	22.746	23.354	37540	7	5.469	4.097
37429	12	6.141	24.324	37541	10	8.868	4.706
37430*	23	7.688	24.217	37542*	21	9.576	4.861
37431	10	11.667	24.234	37543	10	11.088	4.296
37432	12	12.608	24.975	37544	10	11.624	4.952
37433	9	12.864	24.111	37545	12	17.040	4.511
37434	13	14.323	24.442	37546	10	19.829	4.208
37435	9	15.459	24.811	37547	17	20.351	4.198
37436	17	20.942	24.755	37548	10	21.319	4.200
37437	20	2.013	25.344	37549	9	23.073	4.769
37438	21	9.591	25.129	37550	9	23.593	4.632
37439	10	12.100	25.305	37551	18	4.780	5.714

37591	10	11°323	8°090	37665	10	7°450	14°000	37739	17	1°682	20°053	37957	13	25°230	6°227
37592	12	17°751	8°167	37666	12	12°900	14°690	37740	14	2°045	20°937	37958	15	3°775	7°371
37593*	22	23°117	8°950	37667*	36	14°048	14°668	37741	12	2°285	20°040	37959*	26	5°196	7°436
37594	11	23°163	8°550	37668	10	15°808	14°899	37742	22	3°220	20°852	37960	10	7°050	7°510
37595	10	25°802	8°088	37669	22	2°147	15°566	37743	13	5°719	20°542	37961	12	10°064	7°691
37596	10	3°428	9°949	37670	20	2°934	15°165	37744	11	6°353	20°010	37962	9	12°280	7°301
37597	8	3°956	9°964	37671	11	5°868	15°972	37745	9	7°075	20°664	37963	9	19°384	7°942
37598	10	10°826	9°753	37672	11	6°794	15°974	37746	8	7°340	20°921	37964	12	20°961	7°190
37599	8	18°572	9°946	37673	10	7°565	15°638	37747	16	9°927	20°352	37965	18	4°243	8°241
37600	10	21°033	9°282	37674	11	9°192	15°128	37748	8	10°400	20°400	37966	10	5°246	8°629
37601	10	24°717	9°237	37675	10	9°445	15°348	37749	15	11°792	20°725	37967*	32	8°944	8°300
37602	21	25°052	9°619	37676	10	9°730	15°014	37750	10	12°143	20°630	37968	12	9°960	8°018
37603	17	0°539	10°100	37677	11	11°425	15°993	37751*	24	13°917	20°258	37969	10	11°665	8°614
37604	10	2°825	10°524	37678	10	12°626	15°699	37752	10	13°926	20°423	37970	8	23°046	8°608
37605	23	3°933	10°085	37679	9	13°585	15°500	37753	10	14°584	20°692	37971	10	23°290	8°812
37606	10	7°223	10°341	37680	10	15°818	15°909	37754	9	5°215	21°387	37972	22	1°412	9°552
37607	12	11°880	10°231	37681	10	16°150	15°746	37755	12	9°197	21°357	37973	13	2°791	9°491
37608	10	15°642	10°557	37682	9	19°696	15°574	37756	17	9°419	21°580	37974	13	3°819	9°358
37609	15	18°038	10°538	37683	8	22°310	15°763	37757	10	9°522	21°521	37975	12	4°398	9°965
37610	11	19°166	10°382	37684	10	24°387	15°490	37758	12	10°192	21°108	37976	8	7°731	9°126
37611	7	19°539	10°167	37685	7	24°549	15°062	37759	8	10°253	21°116	37977	10	8°268	9°027
37612	9	23°098	10°901	37686	15	3°609	16°492	37760	10	10°465	21°816	37978*	26	8°356	9°810
37613	12	24°209	10°895	37687	9	3°657	16°455	37761	10	10°545	21°238	37979	8	9°320	9°668
37614	8	25°823	10°807	37688	9	5°175	16°150	37762*	33	13°625	21°223	37980	10	10°233	9°761
37615	11	4°452	11°580	37689	10	8°087	16°820	37763	15	16°620	21°346	37981	14	18°365	9°474
37616	10	4°700	11°672	37690	12	9°845	16°629	37764	10	17°357	21°161	37982	9	22°641	9°641
37617	6	5°083	11°880	37691	10	12°533	16°742	37765	12	17°418	21°635	37983	10	25°964	9°250
37618	12	5°674	11°832	37692*	34	14°000	16°723	37766	13	19°525	21°470	37984	12	10°571	10°485
37619	10	5°802	11°709	37693	12	16°345	16°707	37767	23	21°991	21°678	37985	10	11°068	10°678
37620	8	7°709	11°339	37694	12	16°471	16°364	37768	8	4°147	22°166	37986	16	11°585	10°070
37621	10	9°072	11°411	37695*	52	2°600	17°653	37769	10	5°414	22°614	37987	10	20°872	10°250
37622	19	9°943	11°516	37696	9	3°069	17°446	37770	12	8°963	22°390	37988	8	21°302	10°666
37623*	13	13°857	11°404	37697	13	3°182	17°705	37771	7	9°581	22°782	37989	16	1°291	11°566
37624	11	13°944	11°229	37698	8	3°851	17°228	37772*	38	16°956	22°828	37990	13	9°684	11°850
37625	9	18°285	11°506	37699	18	3°882	17°468	37773	11	22°359	22°694	37991*	60	11°980	11°208
37626	10	20°088	11°666	37700	11	5°348	17°954	37774*	33	23°632	22°915	37992	9	13°618	11°811
37627	10	20°291	11°640	37701	17	5°800	17°565	37775	12	25°008	22°838	37993	10	14°430	11°150
37628	12	24°887	11°630	37702	9	5°975	17°739	37776	10	25°715	22°499	37994	14	17°935	11°764
37629	10	24°970	11°723	37703	10	12°966	17°124	37777	20	7°569	23°248	37995	8	23°807	11°995
37630	17	1°420	12°349	37704	12	17°098	17°197	37778	10	8°145	23°363	37996	9	25°192	11°837
37631	15	1°614	12°946	37705	9	23°547	17°138	37779	11	8°709	23°072	37997	10	9°271	12°828
37632	10	2°037	12°019	37706	10	24°118	17°699	37780	8	9°749	23°961	37998	12	18°036	12°350
37633	10	5°611	12°731	37707	10	25°154	17°771	37781	10	10°437	23°833	37999*	41	18°061	12°609
37634	8	6°077	12°783	37708*	22	3°245	18°626	37782	13	13°292	23°685	38000	12	18°321	12°030
37635	11	6°148	12°381	37709	11	3°292	18°103	37783	8	15°521	23°543	38001	8	20°718	12°922
37636	10	6°421	12°744	37710	10	4°771	18°637	37784	8	16°501	23°134	38002	9	20°827	12°296
37637	17	6°427	12°236	37711	9	5°368	18°983	37785	12	19°049	23°899	38003	12	21°030	12°241
37638	10	7°473	12°603	37712	13	15°963	18°461	37786	8	22°765	23°985	38004	9	22°066	12°927
37639	12	8°084	12°610	37713	8	16°488	18°807	37787	15	24°424	23°561	38005	10	3°815	13°931
37640	9	9°386	12°394	37714	10	20°285	18°228	37788	14	25°655	23°483	38006	9	4°945	13°615
37641	10	9°969	12°114	37715	10	20°493	18°742	37789	7	10°241	24°901	38007	11	15°555	13°917
37642	7	11°461	12°716	37716	11	22°678	18°950	37790	11	11°475	24°679	38008	11	19°230	13°941
37643*	32	15°162	12°849	37717	8	25°648	18°145	37791	10	11°783	24°268	38009	10	20°456	13°207
37644	9	15°599	12°987	37718	10	25°701	18°371	37792	10	14°455	24°314	38010	8	20°476	13°821
37645	9	19°171	12°751	37719	9	0°236	19°688	37793	8	14°667	24°026	38011	11	25°420	13°869
37646	9	21°093	12°322	37720	19	0°791	19°306	37794	10	16°078	24°428	38012	12	2°595	14°084
37647*	56	23°290	12°781	37721	22	1°197	19°391	37795	9	18°305	24°479	38013	10	5°344	14°345
37648	8	23°511	12°943	37722	17	1°732	19°251	37796	12	19°458	24°622	38014	10	6°532	14°615
37649	13	4°772	13°085	37723	10	3°015	19°053	37797	7	20°065	24°888	38015	14	15°204	14°225
37650*	26	5°180	13°858	37724	8	3°273	19°039	37798	10	20°513	24°033	38016	8	18°450	14°004
37651	10	6°428	13°579	37725	11	3°856	19°765	37799	20	23°531	24°054	38017	8	19°967	14°961
37652*	23	7°095	13°441	37726	22	4°184	19°864	37800	13	25°539	24°944	38018	12	4°405	15°912
37653	13	15°628	13°133	37727	8	4°584	19°164	37801	15	25°578	24°659	38019	12	5°468	15°679
37654	15	17°189	13°810	37728	8	8°466	19°746	37802	22	2°456	25°162	38020	13	7°141	15°865
37655	8	17°959	13°219	37729	15	9°802	19°023	37803	17	3°551	25°716	38021	10	7°561	15°700
37656	10	18°632	13°118	37730	7	11°019	19°264	37804	8	6°218	25°976	38022*	20	13°901	15°230
37657	9	20°800	13°049	37731	12	11°697	19°286	37805	9	8°552	25°922	38023	9	18°077	15°931
37658	11	22°502	13°479	37732	10	12°047	19°550	37806	9	11°307	25°716	38024	8	19°054	15°810
37659	18	1°946	14°592	37733	8	13°755	19°891	37807	18	16°242	25°398	38025*	40	25°966	15°125
37660	24	2°279	14°837	37734	10	17°252	19°700	37808	11	17°200	25°492	38026	8	6°638	16°599
37661	8	2°449	14°201	37735	7	17°451	19°947	37809	10	19°605	25°818	38027	10	7°066	16°099
37662	8	2°460	14°366	37736	11	19°137	19°030	37810	10	20°663	25°855	38028	10	8°690	16°710
37663	10	5°269	14°087	37737	9	23°318	19°793	37811	16	22°559	25°922	38029	8	11°030	16°642
37664	13	6°773	14°822	37738	12	25°170	19°968	37812	12	23°551	25°963	38030	10	11°870	16°165

R. A. 13^h 57^m

Plate 1891; 1901 Dec. 10.

Provisional Constants.

A B C
 -00065 +01046 -1805

D E F
 -01048 -00069 -0907

Mag. = 15.7 - 1.25√d

No.	d	x	y
37901	13	9°270	0°660
37902	11	16°370	0°403
37903	10	20°367	0°496

38031	9	12'457	16'957					38257	9	20'896	6'645	38331	8	11'734	17'063		
38032*	21	17'700	16'163					38258	10	21'113	6'649	38332	9	17'253	17'555		
38033	10	12'381	17'386					38259	8	21'145	6'425	38333*	28	22'577	17'279		
38034	12	24'719	17'808					38260	8	23'117	6'991	38334	19	4'215	18'410		
38035	14	6'758	18'205					38261	20	23'679	6'367	38335	8	9'179	18'013		
38036	10	7'235	18'843					38262	20	25'802	6'503	38336	10	9'545	18'058		
38037	11	8'111	18'585					38263	19	25'823	6'567	38337	9	9'884	18'239		
38038*	20	17'476	18'546					38264	22	2'486	7'754	38338	12	10'711	18'906		
38039	10	18'422	18'600					38265	10	3'291	7'640	38339*	28	14'784	18'232		
38040	11	25'292	18'570					38266	20	5'719	7'522	38340*	39	15'775	18'556		
38041	15	1'770	19'894					38267	18	8'402	7'621	38341*	23	18'087	18'796		
38042	12	6'304	19'738					38268	7	18'649	7'744	38342	8	19'059	18'765		
38043	10	7'431	19'881					38269*	20	18'864	7'641	38343	20	23'038	18'686		
38044	9	9'275	19'876					38270	7	18'883	7'977	38344	7	23'547	18'653		
38045	21	9'530	19'710					38271	7	6'423	8'539	38345	8	24'499	18'699		
38046	9	10'802	19'523					38272	8	8'516	8'628	38346	10	4'657	19'573		
38047	9	11'984	19'823					38273	10	17'192	8'916	38347	20	6'486	19'474		
38048	10	13'412	19'497					38274	8	20'687	8'747	38348	8	10'270	19'001		
38049	10	13'896	19'380					38275	17	25'856	8'672	38349	9	13'959	19'919		
38050	10	16'391	19'690					38276	11	2'004	9'199	38350	8	15'165	19'349		
38051	10	17'383	19'175					38277	8	3'440	9'074	38351	11	16'277	19'635		
38052	12	19'091	19'480					38278	12	4'792	9'810	38352	9	18'155	19'281		
38053	11	19'879	19'607					38279	18	9'004	9'628	38353	12	24'836	19'230		
38054	10	20'901	19'717					38280	9	9'814	9'013	38354	10	4'511	20'996		
38055	12	5'285	20'622					38281	20	17'785	9'822	38355	20	9'844	20'868		
38056	12	5'720	20'642					38282	9	23'724	9'839	38356	16	11'709	20'211		
38057	11	6'096	20'668					38283	8	24'576	9'852	38357	16	25'602	20'746		
38058*	21	8'825	20'557					38284	9	3'279	10'345	38358	19	16'012	21'109		
38059	10	17'031	20'883					38285	8	3'718	10'893	38359	9	17'330	21'349		
38060	9	20'510	20'446					38286	10	4'558	10'564	38360	20	20'611	21'175		
38061	12	25'459	20'222					38287	10	8'392	10'904	38361	12	21'439	21'038		
38062*	23	3'954	21'660					38288	8	10'467	10'288	38362	10	22'865	21'799		
38063*	29	4'860	21'625					38289	18	16'448	10'584	38363	11	24'712	21'779		
38064	22	5'595	21'632					38290	30	17'295	10'530	38364	14	12'441	22'501		
38065	12	7'836	21'665					38291	9	22'040	10'002	38365	8	13'676	22'210		
38066	12	8'862	21'900					38292	12	2'193	11'639	38366	10	14'791	22'777		
38067	11	8'878	21'664					38293	10	5'046	11'675	38367	11	16'236	22'013		
38068	10	9'598	21'620					38294	10	6'774	11'976	38368	15	16'388	22'726		
38069	9	12'600	21'640					38295	15	12'659	11'885	38369*	49	3'637	23'587		
38070	8	15'721	21'586					38296	19	18'347	11'616	38370	8	9'213	23'999		
38071	9	21'342	21'775					38297	17	20'746	11'855	38371	27	12'043	23'037		
38072	9	22'227	21'631					38298	28	24'271	11'786	38372	9	13'867	23'257		
38073	9	22'378	21'831					38299	8	4'092	12'077	38373	8	24'951	23'308		
38074	18	25'066	21'550					38300	10	7'157	12'801	38374	10	25'308	23'736		
38075	13	25'078	21'114					38301	11	9'673	12'211	38375	11	2'395	24'423		
38076*	50	0'300	22'877					38302	25	13'380	12'276	38376	19	2'945	24'161		
38077	16	1'675	22'770					38303	13	24'471	12'917	38377	18	6'010	24'829		
38078	22	4'751	22'578					38304	11	25'295	12'913	38378	12	6'141	24'634		
38079	12	5'919	22'470					38305	11	1'534	13'827	38379	10	14'860	24'166		
38080*	22	6'556	22'175					38306	8	9'852	13'194	38380	10	21'212	24'934		
38081	10	7'737	22'861					38307*	40	12'749	13'777	38381	10	22'130	24'706		
38082	9	11'437	22'180					38308	8	22'305	13'289	38382	9	4'646	25'622		
38083	7	11'936	22'676					38309*	31	22'497	13'136	38383	12	8'024	25'264		
38084	11	13'281	22'090					38310	18	25'027	13'905	38384	12	12'169	25'145		
38085	10	14'562	22'365					38311	10	10'108	14'613	38385	8	21'905	25'148		
38086	8	16'406	22'491					38312	8	10'805	14'372						
38087	14	5'284	23'487					38313	9	12'830	14'356						
38088	15	5'720	23'336					38314	9	19'071	14'867						
38089*	24	9'655	23'829					38315*	30	20'250	14'181						
38090*	39	12'560	23'476					38316	10	21'816	14'943						
38091	10	14'235	23'345					38317	9	23'884	14'852						
38092	8	18'473	23'099					38318*	40	2'101	15'073						
38093	9	20'396	23'271					38319	7	7'392	15'161						
38094	36	0'226	24'021					38320	8	7'898	15'143						
38095	18	8'229	24'803					38321	7	10'637	15'044						
38096	11	15'640	24'880					38322	19	23'376	15'350						
38097	9	16'244	24'795					38323	9	24'387	15'211						
38098	8	17'402	24'202					38324	9	12'869	16'924						
38099	13	7'450	25'770					38325	8	17'597	16'802						
38100	12	9'475	25'665					38326	10	2'799	17'933						
38101	10	17'829	25'814					38327	8	3'983	17'338						
38102	18	25'570	25'894					38328	8	5'342	17'913						
								38329	11	10'557	17'114						
								38330	10	11'722	17'949						

38457	11	3°312	9°087	38531	10	4°422	20°050	38614	10	7°846	2°987	38688	19	11°966	11°926	38762	11	18°832	21°312
38458	7	4°659	9°218	38532	20	10°709	20°304	38615	10	8°488	2°142	38689	14	21°517	11°122	38763	20	19°006	21°062
38459*	30	6°525	9°920	38533	9	16°779	20°225	38616	9	9°493	2°931	38690	10	24°130	11°162	38764	21	20°545	21°151
38460*	20	8°468	9°036	38534	8	17°752	20°710	38617*	30	15°133	2°902	38691	9	6°237	12°063	38765	8	21°404	21°182
38461	22	10°506	9°059	38536	13	1°628	21°289	38618	7	19°159	2°338	38692	8	6°450	12°479	38766	12	24°785	21°317
38462	9	19°518	9°120	38536	9	7°261	21°163	38619	8	23°117	2°709	38693*	30	11°251	12°247	38767	8	25°213	21°958
38463*	32	24°334	9°625	38537	8	11°115	21°990	38620*	61	23°197	2°054	38694	12	13°181	12°946	38768	17	3°240	22°020
38464	20	2°388	10°416	38538	8	12°940	21°844	38621	21	25°058	2°452	38695	12	16°208	12°131	38769	16	4°261	22°059
38465	17	2°753	10°212	38539	7	13°252	21°833	38622	17	2°612	3°895	38696	8	23°747	12°120	38770	10	5°309	22°569
38466	18	4°692	10°746	38540	10	15°935	21°995	38623	10	3°508	3°640	38697*	40	7°985	13°872	38771	12	8°214	22°656
38467	8	5°876	10°112	38541	14	22°313	21°707	38624	10	3°656	3°686	38698	10	8°297	13°115	38772*	28	9°241	22°113
38468	14	8°095	10°017	38542	8	24°359	21°113	38625	8	5°964	3°841	38699	9	9°688	13°216	38773	20	14°254	22°272
38469	20	9°461	10°628	38543	14	24°488	21°222	38626	12	6°263	3°355	38700	8	15°672	13°150	38774	9	15°706	22°412
38470	15	12°518	10°000	38544	20	25°521	21°790	38627	8	7°253	3°753	38701	11	16°975	13°189	38775	8	16°485	22°448
38471	8	6°201	11°032	38545	18	25°547	21°957	38628	30	10°533	3°019	38702	18	24°117	13°066	38776	9	22°804	22°215
38472	8	11°666	11°457	38546	12	0°753	22°338	38629	10	12°133	3°205	38703*	30	3°983	14°149	38777	10	23°960	22°376
38473	10	16°009	11°874	38547	8	10°273	22°675	38630	8	24°995	3°369	38704	10	8°328	14°836	38778	12	2°792	23°406
38474	9	20°163	11°155	38548	10	11°467	22°160	38631	17	6°522	4°996	38705	19	16°920	14°606	38779	18	4°483	23°607
38475	10	24°090	11°436	38549	9	12°210	22°236	38632	13	15°356	4°503	38706	7	20°422	14°833	38780	17	11°347	23°204
38476*	43	24°767	11°327	38550	19	12°651	22°223	38633	10	15°985	4°314	38707	8	2°182	15°089	38781	8	12°224	23°947
38477	8	25°623	11°301	38551	7	15°455	22°231	38634	9	18°687	4°565	38708	10	6°583	15°008	38782	7	12°531	23°873
38478	20	0°168	12°350	38552	7	18°373	22°484	38635	12	25°893	4°745	38709	11	10°328	15°760	38783	11	20°127	23°567
38479	12	2°409	12°663	38553*	22	9°278	23°072	38636	18	0°126	5°347	38710*	32	20°893	15°260	38784	11	21°281	23°952
38480	12	13°633	12°766	38554*	41	10°370	23°707	38637	12	3°116	5°063	38711	10	21°082	15°625	38785	20	24°188	23°657
38481	12	14°827	12°907	38555	17	16°689	23°103	38638*	26	5°150	5°158	38712	10	2°465	16°383	38786*	27	1°817	24°338
38482	17	15°909	12°815	38556	11	1°379	24°285	38639	8	6°735	5°862	38713	12	5°084	16°233	38787	12	2°758	24°572
38483	7	23°719	12°626	38557*	30	3°513	24°643	38640*	32	9°247	5°907	38714	10	9°071	16°794	38788	9	5°645	24°404
38484	12	0°384	13°476	38558	9	10°022	24°365	38641	9	12°215	5°457	38715	8	22°574	16°557	38789	8	11°545	24°335
38485	11	1°207	13°460	38559	10	11°637	24°167	38642	8	14°682	5°161	38716	21	23°584	16°359	38790*	19	15°612	24°296
38486	10	5°690	13°861	38560*	27	14°850	24°368	38643	9	17°483	5°262	38717	10	5°433	17°402	38791	7	16°731	24°516
38487*	23	8°274	13°360	38561	8	18°062	24°813	38644	8	17°949	5°110	38718	12	5°797	17°107	38792	13	17°802	24°681
38488	12	10°018	13°800	38562*	23	25°130	24°441	38645	8	18°315	5°390	38719	10	12°390	17°320	38793	10	18°593	24°184
38489	9	13°853	13°327	38563	10	2°418	25°271	38646	10	24°943	5°898	38720	15	13°499	17°372	38794	12	21°322	24°274
38490	21	16°204	13°787	38564*	30	6°715	25°073	38647	10	25°846	5°728	38721	8	15°137	17°781	38795	12	23°023	24°820
38491	8	18°622	13°472	38565	11	11°747	25°481	38648	11	6°865	6°765	38722	12	15°581	17°622	38796*	36	3°962	25°591
38492	11	21°379	13°500	38566	10	15°342	25°446	38649	17	9°533	6°523	38723	20	22°658	17°910	38797	12	4°034	25°324
38493	8	21°432	13°942	38567	8	19°313	25°719	38650	14	10°102	6°971	38724	10	23°990	17°121	38798	20	7°538	25°557
38494	12	0°960	14°456	38568	19	22°979	25°464	38651	22	24°250	6°822	38725	15	1°705	18°233	38799*	38	9°026	25°224
38495	11	3°582	14°461					38652	20	24°286	6°859	38726*	19	2°095	18°876	38800	24	11°373	25°119
38496	22	8°143	14°988					38653*	32	24°947	6°489	38727	14	5°624	18°885	38801	23	15°272	25°940
38497	9	15°351	14°546					38654	12	5°231	7°767	38728	8	8°596	18°069	38802*	28	17°867	25°054
38498	7	22°075	14°762					38655	8	15°314	7°026	38729	20	13°952	18°488	38803	9	18°268	25°534
38499	10	0°335	15°771					38656	20	15°633	7°396	38730*	31	19°930	18°059	38804*	27	22°513	25°561
38500*	50	1°962	15°396					38657	7	18°063	7°146	38731	9	23°675	18°391				
38501	9	3°198	15°177					38658	8	21°485	7°215	38732	9	24°439	18°646				
38502	11	7°937	15°431					38659	18	23°209	7°587	38733	9	24°540	18°017				
38503	8	10°369	15°536					38660	9	23°795	7°506	38734	11	1°152	19°231				
38504	9	17°778	15°425					38661	20	4°192	8°664	38735	20	6°891	19°830				
38505	8	25°712	15°202					38662	18	7°430	8°378	38736	18	10°092	19°273				
38506	8	11°781	16°485					38663	9	10°326	8°425	38737	20	19°479	19°335				
38507	9	14°276	16°579					38664	15	11°094	8°441	38738	17	19°510	19°364				
38508	9	17°584	16°003					38665	12	17°228	8°513	38739	12	24°633	19°522				
38509	10	25°965	16°500					38666	12	18°280	8°762	38740	10	24°762	19°391				
38510	8	3°473	17°382					38667	22	19°542	8°373	38741	8	4°612	20°025				
38511	8	10°806	17°475					38668*	33	0°675	9°547	38742	8	5°002	20°601				
38512	10	16°913	17°875					38669	10	4°747	9°601	38743	12	6°500	20°495				
38513	20	21°184	17°962					38670	17	7°544	9°029	38744	11	7°041	20°184				
38514	9	3°158	18°700					38671	8	19°877	9°441	38745	9	8°951	20°364				
38515	8	8°687	18°155					38672	9	20°733	9°178	38746	20	11°669	20°273				
38516	17	10°229	18°942					38673	10	21°289	9°170	38747	8	14°327	20°607				
38517	10	10°423	18°397					38674	8	22°132	9°417	38748	9	17°028	20°718				
38518	12	14°955	18°203					38675	8	22°398	9°234	38749	18	20°414	20°854				
38519	17	16°860	18°600					38676	8	23°000	9°034	38750	12	22°931	20°335				
38520	8	19°839	18°718					38677	11	25°868	9°125	38751	12	23°128	20°965				
38521	15	25°163	18°332					38678	10	12°320	10°472	38752	22	24°329	20°317				
38522*	15	25°537	18°985					38679	17	17°154	10°854	38753	10	25°747	20°357				
38523	10	0°841	19°785					38680*	18	20°102	10°686	38754	13	1°097	21°137				
38524	11	5°019	19°851					38681	11	21°126	10°749	38755	21	2°147	21°680				
38525	9	10°049	19°523					38682*	32	25°764	10°871	38756	20	2°175	21°846				
38526</																			

38909	8	5.948	1.800	38983*	26	1.993	11.142	39057	10	19.473	20.013	39113	12	16.510	1.399	39187*	21	6.699	11.566
38910	20	7.457	1.946	38984	12	2.646	11.035	39058	9	21.363	20.453	39114	9	17.062	1.094	39188	12	7.388	11.070
38911	8	10.748	1.398	38985*	19	3.355	11.182	39059	11	21.501	20.286	39115	12	18.896	1.700	39189	10	7.670	11.217
38912	11	16.413	1.744	38986	9	4.856	11.916	39060	9	25.790	20.432	39116	9	19.882	1.425	39190	13	8.607	11.850
38913	8	16.931	1.866	38987	8	7.056	11.348	39061	12	1.134	21.599	39117	20	20.546	1.373	39191	9	10.828	11.327
38914	12	25.312	1.557	38988	11	8.927	11.810	39062	8	6.258	21.043	39118	11	4.842	2.941	39192	11	11.477	11.852
38915	21	1.191	2.729	38989	11	9.071	11.369	39063	10	11.783	21.728	39119*	30	4.862	2.702	39193	9	11.629	11.168
38916	12	10.141	2.632	38990*	58	10.319	11.866	39064	7	18.451	21.858	39120	10	13.895	2.835	39194*	39	12.167	11.766
38917	9	10.407	2.778	38991	11	10.775	11.288	39065	9	18.474	21.740	39121	9	17.821	2.945	39195	12	16.245	11.390
38918*	20	11.812	2.890	38992	8	12.909	11.574	39066	8	18.787	21.902	39122	10	19.614	2.492	39196	11	19.764	11.967
38919*	30	12.330	2.860	38993	18	15.259	11.908	39067	9	0.321	22.664	39123	10	20.430	2.641	39197	11	20.843	11.648
38920	12	17.544	2.233	38994	9	21.294	11.742	39068	10	1.573	22.234	39124	9	21.423	2.485	39198	8	21.075	11.060
38921	8	20.274	2.630	38995	20	22.034	11.743	39069*	40	6.046	22.842	39125	9	23.760	2.830	39199	11	24.100	11.817
38922	8	20.455	2.168	38996	8	22.638	11.092	39070	9	10.073	22.945	39126	8	12.610	3.829	39200	9	12.844	12.934
38923	13	23.719	2.877	38997	7	3.725	12.738	39071	10	14.469	22.086	39127	7	16.489	3.611	39201	10	15.625	12.487
38924	12	4.936	3.115	38998	12	4.796	12.347	39072*	22	22.606	22.301	39128	8	18.438	3.380	39202	11	16.616	12.469
38925	10	12.848	3.178	38999	7	4.895	12.131	39073	10	25.437	22.177	39129	7	21.018	3.669	39203*	12	16.974	12.973
38926	8	13.252	3.949	39000*	22	6.092	12.387	39074	15	0.568	23.946	39130	10	24.002	3.439	39204*	38	17.220	12.118
38927	15	15.828	3.445	39001	8	9.645	12.780	39075*	32	4.861	23.983	39131	11	4.341	4.918	39205	6	20.850	12.631
38928*	32	18.036	3.663	39002	10	12.998	12.473	39076	11	6.460	23.834	39132	10	4.566	4.761	39206	10	7.086	13.716
38929	9	23.212	3.653	39003	9	14.905	12.402	39077	8	8.433	23.174	39133	11	6.121	4.658	39207	10	8.195	13.334
38930	20	23.237	3.075	39004	12	18.148	12.003	39078*	22	10.969	23.951	39134	12	7.500	4.969	39208	8	18.937	13.020
38931	9	0.658	4.786	39005	22	19.484	12.185	39079*	23	19.939	23.845	39135	9	10.608	4.797	39209	13	20.746	13.443
38932	10	2.704	4.700	39006	8	20.633	12.148	39080*	31	20.295	23.082	39136	11	11.441	4.871	39210*	20	22.504	13.226
38933	12	2.722	4.897	39007	12	0.374	13.355	39081	14	25.069	23.613	39137	12	13.285	4.038	39211	10	5.565	14.962
38934	8	6.838	4.845	39008	10	7.249	13.869	39082	9	5.075	24.751	39138	15	1.290	5.976	39212	11	7.323	14.041
38935	12	11.431	4.800	39009	16	10.568	13.626	39083*	9	7.172	24.034	39139	9	12.292	5.931	39213	11	14.420	14.930
38936	9	12.382	4.847	39010	10	14.615	13.598	39084*	20	8.825	24.327	39140	11	14.671	5.464	39214	10	19.859	14.993
38937	9	19.737	4.533	39011	8	7.108	14.176	39085	8	11.613	24.160	39141	12	16.095	5.770	39215	11	21.126	14.637
38938	10	20.244	4.160	39012	8	17.188	14.963	39086*	28	12.829	24.319	39142	11	2.455	6.899	39216*	50	0.501	15.248
38939	11	24.482	4.285	39013*	22	19.973	14.023	39087	7	13.069	24.393	39143	9	4.539	6.905	39217	12	0.914	15.465
38940	10	2.050	5.011	39014	10	22.651	14.123	39088	8	16.178	24.832	39144	9	8.710	6.397	39218	13	2.516	15.963
38941	10	2.379	5.696	39015	9	23.738	14.220	39089*	19	18.254	24.256	39145*	110	9.291	6.528	39219	10	3.163	15.093
38942	7	6.365	5.126	39016	10	9.101	15.454	39090	8	19.193	24.101	39146	12	14.227	6.273	39220	10	4.103	15.950
38943	17	8.341	5.730	39017	12	13.680	15.600	39091	19	4.018	25.206	39147*	30	15.902	6.353	39221	12	11.005	15.426
38944	8	14.503	5.787	39018	12	22.429	15.642	39092	11	4.146	25.213	39148	8	20.699	6.866	39222	9	18.080	15.454
38945	10	16.328	5.229	39019*	31	24.238	15.418	39093	9	5.404	25.182	39149	7	23.219	6.890	39223	10	24.111	15.558
38946	18	19.039	5.081	39020	8	24.649	15.646	39094	10	15.826	25.467	39150	10	2.088	7.483	39224	8	24.971	15.767
38947	8	22.699	5.741	39021	8	5.234	16.428	39095	12	17.145	25.073	39151	8	7.180	7.392	39225	12	4.321	16.549
38948	8	1.115	6.178	39022	10	8.477	16.732	39096	9	18.649	25.060	39152	10	10.470	7.516	39226	14	5.340	16.438
38949*	29	1.126	6.769	39023*	42	11.816	16.061	39097	10	19.645	25.386	39153	22	11.485	7.881	39227	9	5.636	16.496
38950	20	2.412	6.902	39024	11	21.769	16.074					39154	7	16.213	7.377	39228	10	5.918	16.380
38951	18	10.001	6.840	39025	8	22.155	16.182					39155	9	16.881	7.217	39229	9	7.198	16.859
38952	8	20.718	6.312	39026	10	0.292	17.409					39156	30	0.680	8.394	39230	6	7.297	16.300
38953	10	21.085	6.819	39027	15	7.599	17.277					39157	11	3.410	8.433	39231	11	12.713	16.862
38954	7	22.652	6.767	39028	8	8.005	17.875					39158	7	4.875	8.509	39232*	30	13.130	16.427
38955	10	25.197	6.163	39029	7	8.765	17.293					39159	10	8.466	8.765	39233	9	13.746	16.551
38956	19	0.432	7.109	39030	8	10.546	17.783					39160	12	9.175	8.580	39234	13	16.549	16.220
38957	17	0.467	7.146	39031	12	16.121	17.942					39161	10	13.434	8.397	39235	18	19.786	16.364
38958	14	6.723	7.136	39032	8	23.864	17.854					39162	9	15.123	8.945	39236	8	21.111	16.173
38959	10	8.856	7.541	39033	10	0.759	18.932					39163	24	15.168	8.950	39237	13	24.769	16.334
38960	9	14.027	7.443	39034	9	0.853	18.301					39164	9	18.079	8.909	39238	11	3.689	17.798
38961	7	21.584	7.100	39035	10	5.429	18.829					39165	9	18.833	8.204	39239	8	4.888	17.739
38962	8	25.970	7.685	39036	8	6.269	18.375					39166	8	20.037	8.281	39240	6	8.220	17.516
38963	8	2.598	8.212	39037	8	7.567	18.172					39167	9	20.102	8.086	39241	10	8.318	17.484
38964	8	9.751	8.671	39038	9	10.399	18.848					39168	9	20.141	8.005	39242	9	8.966	17.410
38965	8	21.385	8.472	39039*	31	12.048	18.021					39169	10	20.454	8.646	39243	10	9.080	17.103
38966	20	24.546	8.570	39040	8	17.831	18.468					39170	21	4.840	9.956	39244	10	10.605	17.084
38967	11	2.078	9.395	39041	13	17.899	18.416					39171	9	5.218	9.240	39245	15	20.427	17.379
38968	8	5.819	9.908	39042	10	20.016	18.963					39172	12	7.432	9.371	39246	12	4.659	18.524
38969	20	5.973	9.606	39043	23	23.497	18.261					39173	8	10.735	9.939	39247	9	8.297	18.898
38970	8	8.860	9.687	39044	10	0.963	19.804					39174	20	16.140	9.323	39248	10	12.779	18.010
38971	9	10.816	9.338	39045	9	1.089	19.672					39175	9	18.027	9.340	39249	9	13.663	18.857
38972	8	11.823	9.695	39046	9	3.714	19.027					39176	10	21.072	9.960	39250*	28	15.882	18.412
38973	7	11.945	9.207	39047	11	4.839	19.795					39177	9	24.915	9.233	39251	11	23.479	18.144
38974	8	4.404	10.568	39048	8	13.320	19.950					39178	9	25.100	9.927	39252	9	24.591	

39261	10	6°027	20°083	39404	5	9°377	0°409	39478	8	2°112	10°095	39552	10	21°584	19°651
39262	12	7°986	20°268	39405	26	11°476	0°194	39479	5	4°959	10°680	39553	10	23°885	19°502
39263	11	13°523	20°251	39406	6	18°558	0°822	39480	13	5°487	10°117	39554	5	23°915	19°021
39264	8	15°121	20°746	39407	7	1°579	1°475	39481	4	16°565	10°937	39555	5	2°935	20°883
39265*	13	15°775	20°125	39408	4	8°447	1°780	39482	5	22°716	10°225	39556	16	12°424	20°981
39266	11	16°174	20°498	39409	7	23°803	1°553	39483	4	23°866	10°547	39557	5	14°657	20°401
39267	15	16°355	20°513	39410	4	25°736	1°877	39484	5	25°851	10°922	39558	10	15°733	20°632
39268	11	16°487	20°674	39411	11	10°056	2°614	39485	11	6°525	11°416	39559	13	18°396	20°106
39269	12	20°090	20°999	39412	5	24°486	2°938	39486	6	16°547	11°666	39560	7	19°614	20°115
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39271	10	24°928	20°505	39414	13	5°638	3°900	39488	11	22°213	11°556	39562	12	25°114	20°096
39272	14	25°297	20°330	39415	5	5°928	3°280	39489	10	23°595	11°714	39563	6	1°636	21°375
39273	12	1°826	21°982	39416	5	6°077	3°416	39490	8	0°570	12°712	39564	11	2°005	21°190
39274	10	5°080	21°813	39417	4	7°207	3°882	39491	10	4°469	12°171	39565	8	3°866	21°506
39275	11	6°281	21°949	39418	4	10°082	3°666	39492	5	5°729	12°570	39566	6	7°744	21°354
39276	9	12°574	21°549	39419	5	10°263	3°544	39493*	28	6°535	12°241	39567	7	13°346	21°646
39277	6	12°802	21°538	39420*	15	11°426	3°782	39494	8	14°345	12°403	39568	8	15°947	21°546
39278	9	13°287	21°150	39421*	10	11°946	3°202	39495	8	19°284	12°518	39569	11	16°704	21°166
39279	10	17°040	21°897	39422	9	15°510	3°099	39496	9	3°867	13°765	39570	7	17°983	21°556
39280*	12	18°769	21°681	39423*	38	20°855	3°790	39497*	12	8°775	13°025	39571	9	20°874	21°718
39281	10	23°976	21°170	39424	6	22°323	3°845	39498*	17	13°009	13°227	39572	5	0°705	22°066
39282*	18	24°329	21°833	39425	6	24°067	3°988	39499	7	13°039	13°038	39573*	10	1°076	22°718
39283	12	3°288	22°094	39426	11	24°460	3°614	39500	7	9°964	14°595	39574	6	4°054	22°422
39284	12	3°532	22°315	39427	6	0°245	4°338	39501	6	18°697	14°602	39575	7	7°654	22°816
39285	9	6°145	22°985	39428	6	4°295	4°724	39502	6	20°737	14°024	39576	5	11°417	22°965
39286	9	8°840	22°390	39429	12	6°385	4°776	39503	7	21°827	14°350	39577	6	14°954	22°448
39287	8	10°910	22°755	39430	12	10°235	4°499	39504	10	25°975	14°158	39578	6	16°963	22°202
39288	7	12°689	22°345	39431	7	12°646	4°976	39505	5	3°320	15°446	39579*	14	19°054	22°366
39289	9	16°555	22°657	39432*	12	14°563	4°082	39506	5	19°036	15°885	39580	5	20°705	22°286
39290	8	21°023	22°437	39433	4	22°816	4°497	39507	10	21°486	15°349	39581	7	20°755	22°395
39291	8	21°149	22°481	39434	7	23°954	4°629	39508	9	0°684	16°450	39582	7	3°371	23°414
39292	9	22°181	22°436	39435	4	24°206	4°856	39509	5	1°549	16°635	39583*	17	7°400	23°988
39293	20	1°484	23°426	39436	5	3°075	5°427	39510	5	4°823	16°354	39584	11	8°721	23°858
39294*	12	15°370	23°990	39437	7	3°495	5°354	39511	5	6°826	16°265	39585	6	9°931	23°567
39295	9	16°820	23°071	39438	16	6°036	5°137	39512	6	6°949	16°318	39586	6	13°505	23°415
39296	12	25°267	23°997	39439	7	7°094	5°042	39513	7	9°036	16°072	39587	7	14°114	23°366
39297	11	25°557	23°065	39440	18	7°655	5°359	39514	9	13°540	16°567	39588	8	2°077	24°853
39298	12	12°040	24°187	39441	4	15°297	5°737	39515	8	20°051	16°764	39589*	13	6°225	24°875
39299	10	12°472	24°225	39442	9	22°294	5°148	39516	8	21°077	16°118	39590*	34	7°965	24°304
39300	8	13°459	24°244	39443	13	22°700	5°905	39517	7	22°387	16°893	39591	12	12°383	24°456
39301	9	20°600	24°016	39444	8	5°031	6°622	39518	4	24°065	16°691	39592*	23	16°788	24°827
39302	10	20°692	24°531	39445*	13	6°335	6°863	39519	9	24°431	16°400	39593	5	21°039	24°869
39303	8	22°217	24°081	39446	10	7°606	6°743	39520	11	1°364	17°210	39594	6	21°887	24°896
39304*	60	22°636	24°923	39447	7	10°867	6°153	39521	7	5°965	17°204	39595	7	21°925	24°492
39305	8	7°910	25°100	39448	5	13°715	6°489	39522	7	12°697	17°534	39596	5	24°284	24°751
39306	10	10°454	25°873	39449	4	14°726	6°716	39523	10	16°412	17°068	39597	5	24°544	24°583
39307	10	10°815	25°316	39450	7	17°376	6°826	39524	7	21°229	17°591	39598	14	2°975	25°698
39308	10	14°662	25°405	39451	6	21°546	6°147	39525	15	21°346	17°068	39599	6	7°296	25°095
39309	10	18°875	25°325	39452*	22	5°281	7°713	39526	9	22°844	17°067	39600	6	7°726	25°350
39310	8	22°777	25°269	39453	6	5°319	7°497	39527	6	23°064	17°906	39601	14	10°393	25°512
				39454	8	6°824	7°706	39528	12	25°258	17°325	39602	5	12°353	25°260
				39455	8	7°856	7°844	39529	7	25°424	17°967	39603	13	13°046	25°441
				39456	11	14°236	7°706	39530	5	4°235	18°179	39604	11	14°644	25°581
				39457	10	18°482	7°808	39531	7	8°765	18°035	39605*	22	16°600	25°672
				39458	9	22°016	7°490	39532	4	10°407	18°251	39606	8	17°796	25°573
				39459*	36	25°365	7°838	39533	9	10°459	18°015	39607	5	20°847	25°602
				39460	7	25°547	7°026	39534	11	15°228	18°553	39608	6	25°173	25°394
				39461	4	4°718	8°942	39535	6	19°625	18°323				
				39462	10	9°279	8°842	39536	7	23°786	18°961				
				39463	7	16°736	8°674	39537	9	0°124	19°053				
				39464	8	19°069	8°325	39538	6	1°242	19°329				
				39465	8	20°028	8°937	39539	4	1°745	19°226				
				39466	4	23°094	8°244	39540	6	2°536	19°178				
				39467	7	23°143	8°214	39541	5	3°667	19°664				
				39468	5	25°776	8°839	39542	11	5°997	19°887				
				39469	5	25°864	8°266	39543*	11	6°944	19°412				
				39470	7	3°085	9°081	39544	8	7°096	19°305				
				39471	7	3°144	9°132	39545	8	8°248	19°998				
				39472	7	4°964	9°987	39546*	12	9°186	19°389				
				39473	11	7°976	9°470	39547	9	9°375	19°016				
				39474	5	8°335	9°266	39548	10	11°304	19°155				
				39475	6	16°105	9°097	39549	6	12°240	19°873				
				39476*	20	23°313	9°425	39550	4	13°522	19°465				
				39477*	18	24°483	9°226	39551	5	17°145	19°605				

R. A. 15^h 0^m

Plate 2470; 1906 June 19.

Provisional Constants.

A	B	C
-00024	+00917	+1332

D	E	F
-00969	-00034	+3541

Mag. = 15.0 - 1.25√d

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39715	13	21°917	2°473
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39717*	32	23°640	2°296
39718	9	0°434	3°854
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39720	6	14°225	3°956
39721	6	14°492	3°585
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39724	7	5°580	4°027
39725	4	6°239	4°095
39726	5	8°296	4°735
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39731	8	4°027	5°245
39732	7	7°445	5°772
39733*	67	13°603	5°266
39734	7	24°655	5°976
39735	6	25°102	5°699
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39737	7	25°704	5°430
39738	7	4°466	6°736
39739	7	4°505	6°332
39740	7	5°184	6°150
39741	5	7°804	6°237
39742	5	11°284	6°261
39743*	40	11°913	6°901
39744	14	22°730	6°088
39745	7	25°114	6°597
39746	5	1°574	7°252
39747	10	5°566	7°774
39748	11	11°178	7°632
39749	6	12°637	7°097
39750	6	16°567	7°126
39751	7	22°998	7°175
39752*	36	1°406	8°067
39753	7	8°414	8°867
39754	6	8°825	8°057
39755	6	13°705	8°607
39756*	21	22°574	8°771

39757	12	25°658	8°518	39831	11	13°856	20°481	39911	13	16°403	1°358	39985*	26	4°126	18°679	40125	11	5°025	5°324
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39766	10	12°547	10°414	39840	6	8°476	21°297	39920*	21	1°797	4°707	39994*	14	1°118	20°255	40134	13	4°737	7°776
39767	12	16°817	10°700	39841	12	9°402	21°552	39921*	11	2°041	4°950	39995*	27	2°390	20°071	40135	6	10°820	7°713
39768	12	19°740	10°459	39842*	46	10°278	21°156	39922	10	15°537	4°801	39996*	19	2°787	20°184	40136	12	16°473	7°204
39769	13	20°596	10°445	39843	6	10°503	21°104	39923	22	20°694	4°405	39997	10	14°633	20°818	40137	17	20°133	7°665
39770	7	3°717	11°697	39844	7	13°395	21°077	39924	10	1°250	5°019	39998	12	19°580	20°438	40138	7	5°134	8°815
39771*	23	8°743	11°010	39845	5	14°649	21°706	39925	10	20°540	5°283	39999	11	10°897	21°347	40139	8	7°289	8°156
39772*	18	16°515	11°750	39846	5	15°668	21°907	39926*	34	23°927	5°264	40000	10	14°373	21°842	40140	14	23°477	8°348
39773	4	17°587	11°146	39847	11	21°720	21°175	39927	16	2°633	6°359	40001	17	14°474	21°451	40141*	27	25°374	8°388
39774	7	10°064	12°396	39848	5	23°884	21°006	39928	9	14°493	6°314	40002	9	7°629	22°771	40142	20	1°271	9°727
39775*	20	13°823	12°924	39849	6	6°146	22°226	39929	11	15°552	6°273	40003*	32	22°678	22°876	40143	7	8°896	9°170
39776	6	23°241	12°427	39850	5	10°766	22°353	39930	19	16°256	6°708	40004	11	24°757	22°641	40144*	20	11°869	9°966
39777	10	23°375	12°863	39851	10	13°156	22°495	39931	9	6°652	7°886	40005	14	7°732	23°152	40145	7	20°558	9°310
39778	12	25°824	12°105	39852	4	8°815	23°859	39932	8	21°862	7°174	40006	11	8°021	23°452	40146	14	22°438	9°187
39779*	20	8°790	13°504	39853	13	13°905	23°024	39933*	17	22°309	7°811	40007	10	8°648	23°844	40147	11	23°886	9°825
39780	12	12°828	13°673	39854	5	14°445	23°322	39934	19	1°243	8°110	40008	15	22°462	23°122	40148*	41	24°535	9°908
39781	6	24°713	13°106	39855	5	22°376	23°802	39935	10	4°013	8°524	40009	12	21°290	24°066	40149	16	25°167	9°880
39782	20	25°474	13°876	39856	5	23°004	23°344	39936	10	8°379	8°179	40010	11	13°662	25°852	40150*	19	13°579	10°554
39783	9	2°115	14°377	39857*	40	23°256	23°982	39937	9	9°405	8°819	40011	15	15°249	25°897	40151*	19	24°509	10°486
39784	10	2°682	14°528	39858	13	23°745	23°164	39938	9	12°627	8°824					40152	5	25°186	10°227
39785	4	5°493	14°946	39859	11	8°676	24°916	39939	10	17°766	8°975					40153	10	1°937	11°422
39786	4	7°126	14°836	39860	15	11°598	24°392	39940	22	18°777	8°044					40154	11	6°520	11°498
39787	6	7°724	14°082	39861	8	12°554	24°781	39941	19	23°156	8°156					40155*	14	14°940	11°500
39788	5	8°984	14°100	39862	4	13°360	24°813	39942	12	18°614	9°625					40156*	22	15°562	11°986
39789	11	13°359	14°035	39863*	19	19°305	24°754	39943	10	18°634	9°844					40157	9	16°174	11°278
39790	16	17°614	14°861	39864*	22	22°815	24°715	39944*	32	19°488	9°425					40158	13	16°980	11°877
39791	7	19°352	14°314	39865	5	3°822	25°737	39945	22	24°978	9°436					40159	10	19°014	11°261
39792	5	19°395	14°484	39866*	27	4°237	25°180	39946*	32	5°054	10°337					40160	12	21°676	11°309
39793	5	21°627	14°600	39867	5	9°784	25°688	39947	11	8°218	10°173					40161	9	22°532	11°224
39794	18	5°506	15°570	39868	5	16°826	25°896	39948	11	11°758	10°187					40162	6	25°786	11°402
39795	7	12°496	15°203	39869	7	16°891	25°052	39949	9	23°928	10°397					40163	15	0°895	12°450
39796	9	14°294	15°591	39870*	32	20°515	25°861	39950	12	1°450	11°696					40164	12	2°189	12°291
39797	8	19°890	15°829	39871	8	25°430	25°629	39951	10	3°726	11°692					40165	12	7°735	12°170
39798	7	22°429	15°484					39952	12	9°015	11°627					40166	17	9°222	12°905
39799	6	23°312	15°735					39953	10	10°816	11°405					40167	10	24°698	12°339
39800	9	23°637	15°137					39954	10	14°001	11°200					40168	13	8°424	13°053
39801	9	0°605	16°642					39955	8	25°611	11°141					40169	10	13°128	13°664
39802	8	5°066	16°255					39956	22	2°268	12°465					40170	7	16°170	13°855
39803	5	5°094	16°475					39957	10	7°757	12°924					40171	11	22°107	13°246
39804	10	5°807	16°874					39958	12	8°439	12°313					40172	12	1°200	14°374
39805	13	11°799	16°031					39959	18	24°549	12°151					40173*	30	7°810	14°230
39806	4	24°726	16°657					39960	20	25°846	12°015					40174	14	11°875	14°489
39807	12	1°448	17°556					39961	32	1°124	13°469					40175	16	13°910	14°250
39808	4	11°653	17°887					39962	12	2°811	13°088					40176	14	17°502	14°295
39809	7	24°295	17°525					39963	10	4°550	13°663					40177	8	18°570	14°775
39810	5	1°623	18°197					39964	10	10°572	13°041					40178	12	21°035	14°946
39811	4	3°374	18°154					39965	9	10°806	13°455					40179	10	24°947	14°385
39812	6	4°491	18°344					39966	10	18°161	13°522					40180	10	25°806	14°250
39813	12	5°750	18°073					39967	9	18°954	13°696					40181	12	8°413	15°040
39814	9	11°616	18°642					39968	10	21°839	13°791					40182	10	20°707	15°895
39815*	17	13°797	18°935					39969	15	22°875	13°572					40183	10	22°338	15°892
39816	6	24°696	18°075					39970	10	24°816	14°080					40184	18	24°690	15°035
39817	5	24°762	18°298					39971*	28	4°058	15°408					40185	16	12°521	16°236
39818	14	24°883	18°963					39972	10	17°307	15°922					40186*	22	17°650	16°061
39819	9	0°110	19°750					39973	10	22°596	15°550					40187	6	25°926	16°988
39820	10	5°665	19°642					39974*	21	11°472	16°251					40188	12	1°497	17°619
39821	10	11°825	19°783					39975*	34	11°554	16°323					40189	10	1°742	17°888
39822	5	18°156	19°625					39976	11	19°033	16°422					40190	6	10°267	17°124
39823	8	19°634	19°658					39977	10	3°527	17°248					40191*	20	12°145	17°665
39824	17	23°121	19°966					39978	10	12°150	17°236					40192	20	13°263	17°935
39825	11	1°350	20°329					39979	11	15°050	17°269					40193*	42	14°411	17°827
39826	7	2°824	20°247					39980	12	19°565	17°062					40194	12	15°807	17°294
39827	5	5°416	20°894					39981	9										

40199	10	15°225	18°194	40317	20	18°206	1°355	40391	10	18°818	7°658	40465	12	8°749	13°592	40539	28	2°841	19°272
40200	9	15°496	18°024	40318	20	19°720	1°358	40392	12	20°021	7°992	40466	11	15°954	13°502	40540	8	3°467	19°020
40201*	36	24°301	18°606	40319*	23	19°742	1°372	40393	8	21°230	7°263	40467	21	16°465	13°790	40541	7	5°838	19°681
40202	10	25°042	18°230	40320	7	19°780	1°426	40394*	20	21°475	7°220	40468	20	20°276	13°882	40542	8	5°856	19°665
40203*	19	2°225	19°942	40321	8	20°551	1°031	40395	20	23°699	7°260	40469	9	22°675	13°113	40543	7	9°109	19°620
40204	11	4°330	19°661	40322	9	20°731	1°358	40396*	41	1°360	8°572	40470	9	25°875	13°831	40544	10	9°905	19°483
40205*	24	4°560	19°655	40323*	135	21°940	1°441	40397	9	4°970	8°789	40471	15	1°088	14°577	40545	19	13°465	19°575
40206	13	7°038	19°987	40324	23	0°255	2°534	40398	9	8°709	8°281	40472	11	1°941	14°421	40546	9	14°871	19°045
40207	12	7°850	19°759	40325	9	6°775	2°014	40399	10	11°569	8°915	40473	10	5°694	14°518	40547	10	16°171	19°301
40208	13	15°154	19°570	40326	8	20°515	2°092	40400	9	15°210	8°672	40474	9	8°466	14°044	40548	10	18°130	19°191
40209	18	18°007	19°899	40327	10	24°093	2°209	40401	9	16°219	8°049	40475	20	8°859	14°135	40549	7	21°210	19°741
40210	12	25°886	19°968	40328	9	8°541	3°864	40402	8	20°481	8°399	40476	10	12°479	14°811	40550	9	21°212	19°065
40211	6	9°875	20°279	40329	22	9°869	3°890	40403	10	20°500	8°159	40477	13	12°660	14°022	40551	9	21°806	19°948
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40213	11	7°552	21°637	40331	10	12°261	3°014	40405*	20	21°986	8°093	40479	11	13°170	14°250	40553	10	22°481	19°011
40214	9	11°558	21°433	40332*	21	12°775	3°765	40406	18	2°066	9°556	40480	10	15°425	14°737	40554	8	23°350	19°527
40215	10	13°178	21°006	40333	6	14°667	3°141	40407	12	2°100	9°289	40481	11	23°671	14°075	40555	9	24°510	19°480
40216*	22	20°735	21°615	40334	8	16°245	3°190	40408	6	5°648	9°400	40482	21	0°845	15°235	40556	11	25°891	19°810
40217	13	1°300	22°937	40335	8	17°502	3°013	40409	10	6°652	9°867	40483	10	3°886	15°574	40557	19	2°166	20°136
40218	18	3°543	22°892	40336	19	17°980	3°710	40410	8	8°527	9°249	40484	9	6°043	15°560	40558	8	3°828	20°041
40219	12	2°672	23°389	40337*	32	21°999	3°765	40411	8	11°832	9°429	40485	8	10°230	15°122	40559	10	4°525	20°864
40220	7	7°846	23°870	40338*	20	23°534	3°547	40412*	32	12°751	9°043	40486	10	12°745	15°302	40560	20	5°249	20°960
40221	12	10°584	23°274	40339	10	24°237	3°530	40413	20	20°041	9°204	40487	18	13°845	15°815	40561	7	5°753	20°731
40222	10	10°861	23°255	40340	12	1°564	4°303	40414	10	21°694	9°585	40488	12	14°005	15°845	40562	9	6°857	20°446
40223	16	14°198	23°963	40341	19	3°880	4°275	40415*	31	0°551	10°693	40489	11	14°711	15°598	40563*	29	14°918	20°949
40224	12	15°285	23°567	40342	20	4°335	4°761	40416*	60	0°563	10°114	40490	11	16°250	15°132	40564	9	17°664	20°717
40225	10	15°911	23°932	40343	10	6°906	4°815	40417	20	1°193	10°069	40491	10	16°955	15°700	40565	7	19°863	20°021
40226	18	6°662	24°530	40344	10	11°339	4°665	40418	12	1°220	10°416	40492	9	18°889	15°911	40566	10	19°965	20°143
40227	8	18°335	24°041	40345	8	12°545	4°343	40419	10	2°969	10°834	40493	8	19°487	15°436	40567	9	21°703	20°271
40228*	38	3°047	25°184	40346	9	14°085	4°256	40420	9	3°289	10°648	40494	8	19°899	15°869	40568	7	22°728	20°173
40229	14	3°440	25°690	40347	8	17°339	4°813	40421	10	4°095	10°273	40495	10	21°582	15°262	40569	12	25°424	20°526
40230	6	20°098	25°770	40348	7	17°445	4°581	40422	9	4°271	10°642	40496	8	24°496	15°065	40570	11	0°322	21°217
40231	14	22°493	25°738	40349	8	17°815	4°256	40423	16	6°860	10°974	40497	11	2°281	16°507	40571	17	1°119	21°869
40232	12	23°970	25°530	40350*	22	17°905	4°209	40424	8	9°431	10°823	40498	10	6°997	16°048	40572	10	5°674	21°470
40233*	33	25°075	25°085	40351	7	20°017	4°845	40425	10	9°621	10°634	40499	20	7°309	16°094	40573	8	6°429	21°470
				40352	8	20°781	4°835	40426	9	12°771	10°606	40500	13	12°279	16°255	40574	8	11°745	21°045
				40353	8	20°963	4°810	40427	10	13°905	10°857	40501	10	16°135	16°239	40575	9	14°959	21°043
				40354	12	21°135	4°270	40428	12	14°068	10°320	40502	12	18°444	16°085	40576	7	16°910	21°211
				40355	12	0°732	5°269	40429*	26	17°278	10°133	40503	9	21°984	16°530	40577	20	18°062	21°506
				40356	31	1°760	5°069	40430	21	19°965	10°755	40504	10	22°850	16°182	40578	8	18°674	21°320
				40357	9	8°893	5°141	40431	8	20°786	10°638	40505	12	23°366	16°365	40579	8	19°380	21°892
				40358	9	8°907	5°156	40432	10	21°005	10°740	40506	9	25°227	16°459	40580	8	22°085	21°388
				40359	9	10°099	5°704	40433*	12	21°672	10°495	40507	10	2°132	17°154	40581	22	25°129	21°376
				40360	7	13°085	5°571	40434	9	22°220	10°585	40508	12	2°912	17°947	40582*	41	25°691	21°697
				40361	11	16°524	5°421	40435	11	0°350	11°979	40509	9	5°618	17°165	40583	12	2°840	22°152
				40362	9	17°740	5°601	40436	12	0°828	11°258	40510	9	9°763	17°483	40584	8	4°790	22°264
				40363	8	19°230	5°508	40437	11	1°850	11°576	40511*	20	10°279	17°700	40585	19	8°065	22°568
				40364	9	21°176	5°432	40438	13	5°494	11°719	40512*	29	11°864	17°985	40586	8	9°812	22°117
				40365	6	21°275	5°680	40439	20	6°645	11°030	40513	8	13°053	17°786	40587	10	11°370	22°755
				40366	12	22°205	5°941	40440	9	9°632	11°291	40514	7	16°173	17°580	40588	9	11°629	22°955
				40367	6	22°740	5°179	40441	12	15°134	11°126	40515	9	16°603	17°920	40589	10	12°418	22°363
				40368	9	24°014	5°127	40442	12	15°876	11°115	40516	9	17°861	17°824	40590	7	13°421	22°015
				40369	9	4°709	6°496	40443*	33	17°866	11°071	40517	8	20°459	17°188	40591	8	16°973	22°427
				40370	11	5°890	6°173	40444	15	19°980	11°665	40518	9	22°276	17°185	40592	10	18°156	22°049
				40371*	40	6°140	6°771	40445	8	22°456	11°684	40519	8	23°061	17°921	40593	9	18°450	22°014
				40372*	30	7°846	6°276	40446	12	25°750	11°600	40520*	60	0°550	18°815	40594	10	23°166	22°869
				40373	10	12°619	6°825	40447	12	0°786	12°541	40521	15	1°280	18°422	40595	16	0°543	23°308
				40374	10	17°785	6°229	40448*	23	5°851	12°703	40522	23	4°480	18°790	40596	23	4°067	23°059
				40375	9	20°575	6°090	40449	9	6°576	12°309	40523	8	5°145	18°230	40597*	21	5°661	23°391
				40376	13	20°750	6°271	40450	10	8°859	12°086	40524	10	5°736	18°746	40598	8	7°786	23°980
				40377	9	21°457	6°283	40451	12	10°541	12°950	40525	8	5°805	18°285	40599	8	8°020	23°849
				40378	9	24°082	6°766	40452	9	10°557	12°181	40526	9	7°413	18°950	40600	10	9°532	23°375
				40379	12	24°832	6°347	40453*	46	10°575	12°923	40527	8	7°659	18°140	40601	8	10°480	23°614
				40380	17	1°215	7°125	40454	10	16°606	12°411	40528	12	10°544	18°286	40602	10	13°720	23°029
				40381	9	5°029	7°891	40455	11	17°055	12°292	40529	12	11°478	18°264	40603	9	19°037	23°134
				40382	10	6°404	7°925	40456	12	17°935	12°591	40530	18	16°470	18°831	40604	8	21°888	23°483
				40383	8	6°527	7°884	40457											

40613	10	16.131	24.860	40736	10	10.521	4.518	40810	9	11.268	12.709	40884	9	8.396	20.009	40958	16	17.911	25.190
40614	10	23.373	24.709	40737	11	14.608	4.063	40811	11	14.269	12.770	40885	9	9.661	20.970	40959	13	18.000	25.723
40615	17	25.606	24.387	40738	8	19.906	4.022	40812	11	14.371	12.187	40886	10	11.991	20.279	40960	9	19.634	25.210
40616	31	0.394	25.745	40739	9	21.302	4.338	40813	9	20.430	12.354	40887	10	12.646	20.635	40961	12	20.302	25.210
40617*	50	1.488	25.273	40740	21	8.524	5.241	40814	10	24.006	12.515	40888	9	14.181	20.364	40962	9	20.949	25.610
40618	12	5.953	25.263	40741	10	13.500	5.892	40815	18	24.632	12.616	40889	10	16.956	20.332	40963	11	22.599	25.467
40619	13	7.469	25.555	40742	10	14.873	5.636	40816	12	2.120	13.938	40890	9	19.647	20.259				
40620	9	10.881	25.001	40743	7	14.978	5.054	40817	16	3.370	13.318	40891*	22	20.500	20.137				
40621	10	13.591	25.612	40744	10	22.194	5.577	40818	8	7.501	13.528	40892	8	21.447	20.874				
40622	9	14.584	25.942	40745	9	22.403	5.268	40819	9	14.419	13.302	40893	9	22.180	20.184				
40623	10	16.841	25.970	40746	10	23.561	5.549	40820	11	19.819	13.143	40894	10	24.550	20.985				
40624*	29	17.062	25.142	40747	22	1.013	6.461	40821	11	20.535	13.014	40895	34	1.439	21.486				
40625	10	21.226	25.005	40748*	33	3.218	6.978	40822	12	22.534	13.755	40896*	58	2.000	21.804				
40626	8	22.362	25.305	40749	10	10.570	6.104	40823	10	23.156	13.643	40897	13	4.008	21.866				
40627	9	24.211	25.390	40750	8	11.417	6.445	40824	9	24.370	13.582	40898	10	12.948	21.711				
40628*	26	24.749	25.231	40751	11	12.408	6.400	40825	10	4.419	14.230	40899	13	15.907	21.611				
				40752	22	14.795	6.670	40826	11	4.739	14.829	40900	12	16.480	21.564				
				40753	12	17.471	6.800	40827	21	5.116	14.240	40901	18	19.321	21.295				
				40754	22	14.104	7.421	40828	10	5.116	14.544	40902	8	20.929	21.704				
				40755	10	15.203	7.507	40829*	25	14.225	14.179	40903	12	24.984	21.966				
				40756	11	17.681	7.050	40830	12	14.370	14.471	40904	10	5.069	22.302				
				40757	19	18.142	7.739	40831	10	14.649	14.935	40905	10	7.204	22.136				
				40758	10	18.182	7.185	40832	10	14.961	14.247	40906	11	7.640	22.611				
				40759	10	19.650	7.354	40833	9	15.140	14.890	40907	22	14.429	22.409				
				40760*	22	22.132	7.813	40834	9	17.519	14.041	40908*	22	15.085	22.865				
				40761	8	22.335	7.605	40835	9	19.749	14.816	40909	10	15.669	22.890				
				40762	10	22.957	7.912	40836	12	25.708	14.140	40910	8	18.685	22.354				
				40763	11	4.462	8.965	40837	20	25.829	14.915	40911	10	20.634	22.902				
				40764	9	5.848	8.456	40838	9	4.489	15.339	40912	13	21.043	22.889				
				40765	9	6.285	8.913	40839	15	5.542	15.798	40913*	22	21.298	22.490				
				40766	9	6.520	8.431	40840	13	7.277	15.614	40914	10	23.367	22.974				
				40767	10	6.815	8.648	40841	10	9.364	15.320	40915	13	3.017	23.594				
				40768	19	7.176	8.670	40842	21	11.338	15.459	40916	20	5.129	23.667				
				40769	11	7.851	8.261	40843	9	13.083	15.357	40917	8	6.155	23.894				
				40770	10	9.520	8.879	40844	13	17.088	15.218	40918	19	7.364	23.808				
				40771	21	11.129	8.069	40845	9	17.649	15.229	40919	9	8.651	23.260				
				40772	10	17.949	8.722	40846	10	19.146	15.848	40920	8	9.419	23.852				
				40773	11	18.589	8.287	40847	12	1.496	16.569	40921	11	9.730	23.542				
				40774	10	19.113	8.958	40848	9	5.411	16.064	40922	6	9.751	23.691				
				40775	13	21.405	8.480	40849	10	7.816	16.322	40923	11	10.030	23.674				
				40776	13	21.919	8.138	40850	13	9.693	16.339	40924	9	10.441	23.798				
				40777*	15	23.840	8.560	40851	10	12.050	16.340	40925	10	10.555	23.395				
				40778	9	24.228	8.771	40852	8	14.978	16.051	40926	10	13.946	23.493				
				40779	21	3.510	9.821	40853*	34	16.761	16.643	40927	12	14.811	23.761				
				40780	8	9.860	9.396	40854	8	19.160	16.041	40928	11	16.175	23.428				
				40781	14	15.312	9.298	40855	13	23.363	16.184	40929	19	16.311	23.976				
				40782	13	15.890	9.310	40856	9	3.059	17.310	40930	9	18.495	23.149				
				40783	14	18.614	9.958	40857	10	7.361	17.843	40931	10	22.365	23.749				
				40784	9	21.164	9.561	40858	10	10.415	17.522	40932	9	24.860	23.861				
				40785	8	21.826	9.892	40859	10	11.914	17.793	40933	13	25.026	23.585				
				40786	15	25.680	9.810	40860	11	13.937	17.325	40934	22	1.939	24.495				
				40787	8	9.067	10.062	40861	12	20.069	17.423	40935	10	7.555	24.832				
				40788	10	9.586	10.087	40862	10	20.946	17.800	40936	11	9.149	24.600				
				40789	10	10.855	10.421	40863*	22	21.937	17.638	40937	15	9.900	24.603				
				40790	8	17.089	10.702	40864	12	1.740	18.383	40938	9	13.022	24.351				
				40791	10	19.865	10.115	40865	19	2.455	18.762	40939	10	13.922	24.525				
				40792	9	24.694	10.918	40866	10	2.665	18.383	40940	10	14.699	24.187				
				40793	14	25.280	10.375	40867	10	4.391	18.864	40941	9	16.359	24.050				
				40794	22	1.977	11.707	40868	12	9.389	18.899	40942	16	16.467	24.165				
				40795	7	3.044	11.372	40869	17	9.561	18.710	40943	9	16.910	24.151				
				40796	16	3.087	11.360	40870	10	11.793	18.733	40944	10	21.551	24.067				
				40797	18	6.740	11.741	40871	10	21.597	18.590	40945	11	21.815	24.990				
				40798	9	8.296	11.909	40872	9	22.400	18.019	40946	10	25.296	24.073				
				40799	18	9.223	11.816	40873	12	2.187	19.915	40947	13	25.773	24.066				
				40800	20	20.255	11.640	40874	7	7.862	19.840	40948*	42	1.088	25.345				
				40801	8	21.013	11.626	40875	10	9.533	19.650	40949	16	2.459	25.100				
				40802	12	22.626	11.486	40876	10	12.384	19.176	40950	9	5.536	25.158				
				40803	13	23.570	11.400	40877*	22	19.560	19.458	40951	16	5.619	25.191				
				40804	21	1.444	12.795	40878	9	20.417	19.332	40952	10	12.630	25.751				
				40805*	20	3.370	12.193	40879	10	20.931	19.375	40953	9	15.327	25.781				
				40806	10	3.487	12.823	40880	12	21.836	19.669	40954	8	15.771	25.728				
				40807	10	5.483	12.364	40881	17	1.729	20.635	40955	9	16.509	25.593				
				40808	10	7.075	12.461	40882	9	2.938	20.345	40956	10	17.170	25.797				
				40809*	32	10.941	12.260	40883*	28	6.179	20.525	40957	8	17.675	25.711				

R. A. 15^h 45^m

Plate 1815; 1901 May 20.

Provisional Constants.

A	B	C
-00060	+00350	+0776

D	E	F
-00323	-00050	-5468

Mag. = 15.2 - 1.25√d

No.	d	x	y
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41002	15	6.054	0.162
41003	11	21.285	0.286
41004	10	21.535	0.386
41005	9	21.759	0.723
41006	20	22.326	0.411
41007	12	24.164	0.40
41008*	40	0.871	1.134
41009	12	4.279	1.623
41010*	20	8.200	1.678
41011	9	8.854	1.103
41012*	21	9.628	1.045
41013	10	9.811	1.191
41014	11	10.904	1.342
41015	10	16.530	1.106
41016	9	18.140	1.826
41017	9	8.051	2.500
41018	8	10.042	2.102
41019	12	10.704	2.594
41020	20	11.665	2.285
41021	11	12.200	2.750
41022	13	14.127	2.295
41023	11	15.167	2.602
41024	12	15.393	2.978
41025	10	15.455	2.045
41026	9	16.655	2.376
41027	12	23.160	2.485
41028	20	24.460	2.991
41029	11	24.963	2.751
41030	18	0.852	3.470
41031	12	3.900	3.264
41032	10	3.910	3.616
41033	9	12.660	3.204
41034*	20	18.086	3.379
41035	8	18.471	3.939
41036	8	20.639	3.256
41037	10	21.527	3.085
41038	12	21.549	3.292
41039	13	22.493	3.844
41040	12	23.860	3.192
41041	12	24.888	3.998
41042	22	3.681	4.147
41043	12	6.725	4.333
41044	10	9.425	4.671
41045	11	9.479	4.472

41046	10	19°706	4°022	41120	19	2°250	14°488	41194	9	7°629	21°249	41357	40	0°049	6°301
41047	10	22°173	4°232	41121	8	6°651	14°924	41195	11	8°610	21°777	41358	11	16°313	6°970
41048	11	22°558	4°108	41122	8	7°445	14°862	41196*	40	9°406	21°730	41359	10	22°662	6°926
41049	12	25°226	4°656	41123	12	8°817	14°482	41197	20	11°225	21°034	41360	12	3°801	7°743
41050*	12	11°392	5°953	41124	11	15°032	14°406	41198	8	14°287	21°880	41361	10	5°821	7°807
41051	12	13°101	5°611	41125	12	17°604	14°938	41199	15	15°968	21°090	41362	12	9°412	7°225
41052	9	13°329	5°087	41126	10	18°121	14°550	41200	12	16°223	21°673	41363	14	10°792	7°750
41053	8	16°660	5°785	41127	10	19°877	14°132	41201	10	20°997	21°981	41364	12	19°419	7°815
41054	12	19°283	5°751	41128*	21	25°946	14°818	41202	11	25°931	21°429	41365	13	25°856	7°462
41055	9	25°842	5°242	41129	12	2°738	15°358	41203	21	3°361	22°766	41366	17	25°866	7°299
41056	9	6°477	6°644	41130	11	3°975	15°639	41204	12	5°922	22°342	41367	12	1°205	8°494
41057*	35	7°865	6°847	41131	8	6°894	15°103	41205	10	9°089	22°177	41368	11	4°419	8°310
41058	15	10°223	6°396	41132	10	7°360	15°188	41206	12	13°484	22°655	41369	10	4°977	8°289
41059	12	17°102	6°209	41133	11	15°269	15°298	41207*	22	13°485	22°901	41370	10	19°690	8°394
41060	9	23°260	6°375	41134	10	20°745	15°211	41208	9	14°968	22°960	41371	12	20°104	8°976
41061*	22	23°636	6°201	41135	11	22°790	15°217	41209	17	15°018	22°111	41372	21	21°554	8°315
41062	12	3°274	7°249	41136	9	23°157	15°566	41210	21	15°693	22°168	41373	10	25°469	8°199
41063	7	6°839	7°382	41137	9	24°545	15°388	41211	9	17°215	22°130	41374	10	1°923	9°832
41064	9	9°195	7°329	41138	11	25°708	15°289	41212	10	17°872	22°176	41375	13	6°618	9°308
41065	9	12°911	7°300	41139	10	4°288	16°040	41213	11	19°168	22°500	41376	10	7°067	9°178
41066*	30	14°809	7°726	41140	9	5°115	16°214	41214	16	24°728	22°570	41377	10	9°634	9°883
41067*	14	15°485	7°663	41141	8	6°739	16°072	41215	21	1°628	23°171	41378	11	13°422	9°679
41068	13	17°228	7°422	41142	12	13°702	16°891	41216	18	2°385	23°639	41379	19	15°315	9°360
41069	12	23°484	7°665	41143	10	19°072	16°245	41217	20	5°695	23°320	41380	11	15°785	9°587
41070	8	25°252	7°751	41144	9	19°841	16°572	41218	19	12°985	23°739	41381	10	21°372	9°338
41071*	29	0°130	8°175	41145	9	20°681	16°252	41219	9	13°733	23°435	41382	21	21°952	9°304
41072	10	3°188	8°609	41146	8	24°665	16°351	41220	8	14°952	23°879	41383	13	24°013	9°270
41073	10	10°376	8°362	41147	10	25°526	16°808	41221	20	15°512	23°817	41384	10	24°907	9°203
41074	12	11°430	8°928	41148	12	4°479	17°984	41222	9	15°659	23°990	41385	14	5°067	10°333
41075	12	13°494	8°163	41149	16	6°871	17°999	41223	9	16°783	23°780	41386*	10	12°082	10°954
41076	9	14°935	8°727	41150*	55	11°695	17°967	41224	10	16°960	23°629	41387*	22	12°903	10°945
41077	11	18°806	8°080	41151	11	14°577	17°054	41225	11	18°993	23°750	41388	10	22°620	10°457
41078	10	24°740	8°423	41152	19	16°170	17°108	41226	12	19°132	23°783	41389	10	24°780	10°586
41079	19	1°608	9°961	41153*	21	21°536	17°072	41227*	22	20°787	23°709	41390	19	24°923	10°089
41080	16	1°996	9°387	41154	8	23°708	17°236	41228*	30	21°739	23°263	41391	10	25°725	10°397
41081	8	5°675	9°870	41155	9	25°130	17°960	41229*	30	24°460	23°003	41392	10	4°688	11°579
41082	12	7°615	9°904	41156	20	25°908	17°449	41230	20	2°830	24°330	41393	10	10°176	11°678
41083	11	9°458	9°111	41157	10	5°368	18°775	41231	28	3°357	24°150	41394	10	17°693	11°923
41084	20	10°203	9°070	41158	9	8°701	18°830	41232	11	7°776	24°563	41395	13	22°491	11°396
41085	8	15°969	9°824	41159	9	10°371	18°451	41233	13	12°802	24°821	41396	10	0°558	12°275
41086	8	22°661	9°053	41160	11	12°095	18°517	41234	10	14°578	24°529	41397	32	0°597	12°806
41087	9	22°981	9°473	41161	9	12°651	18°457	41235	8	15°841	24°675	41398	11	3°043	12°739
41088	9	25°426	9°775	41162	10	13°355	18°313	41236	12	21°591	24°462	41399	10	3°778	12°620
41089	11	3°764	10°241	41163	20	14°712	18°654	41237	20	23°432	24°369	41400	10	3°949	12°139
41090	10	4°456	10°735	41164	12	17°572	18°881	41238	11	24°099	24°079	41401	9	6°651	12°072
41091*	21	7°635	10°415	41165	9	17°701	18°063	41239	12	9°775	25°730	41402	13	7°214	12°033
41092	12	9°394	10°487	41166	8	19°828	18°658	41240	8	10°392	25°475	41403*	40	14°878	12°544
41093	9	18°560	10°947	41167	13	21°437	18°775	41241	9	11°615	25°266	41404	11	23°733	12°144
41094	9	20°681	10°084	41168	9	25°010	18°570	41242	12	11°763	25°364	41405	31	0°335	13°845
41095	8	9°291	11°581	41169	11	25°872	18°544	41243	9	12°332	25°106	41406	33	1°440	13°710
41096	9	18°279	11°342	41170	22	2°870	19°131	41244	12	14°216	25°503	41407	11	2°255	13°745
41097*	21	20°865	11°190	41171	12	4°585	19°300	41245	9	15°509	25°275	41408	10	4°351	13°350
41098	8	21°091	11°441	41172	10	5°771	19°800	41246	22	25°636	25°629	41409	11	7°409	13°657
41099*	13	21°306	11°138	41173	9	7°933	19°281					41410	10	11°625	13°685
41100	22	1°003	12°215	41174	20	8°291	19°520					41411	10	20°141	13°083
41101	12	2°401	12°197	41175	20	8°573	19°841					41412	13	22°659	13°017
41102	8	9°281	12°439	41176	11	8°576	19°019					41413*	32	2°552	14°863
41103	9	10°891	12°947	41177	8	8°731	19°547					41414*	20	3°309	14°752
41104	12	12°981	12°399	41178	10	11°593	19°467					41415	12	3°378	14°134
41105	11	15°455	12°144	41179	9	13°420	19°526					41416	20	7°733	14°477
41106	12	15°934	12°505	41180	20	14°990	19°499					41417	22	10°147	14°617
41107	12	16°849	12°367	41181	12	15°507	19°615					41418	12	10°533	14°789
41108	8	24°010	12°184	41182	9	16°649	19°315					41419	15	16°710	14°184
41109	12	24°035	12°717	41183	8	16°652	19°465					41420	10	23°318	14°731
41110	8	0°766	13°185	41184	9	19°908	19°712					41421	13	1°164	15°464
41111	11	2°112	13°719	41185	10	5°501	20°591					41422	17	2°328	15°340
41112	9	4°854	13°523	41186	10	7°910	20°815					41423	10	10°134	15°424
41113	9	5°163	13°241	41187	12	8°145	20°469					41424	21	12°806	15°816
41114	12	10°550	13°724	41188	10	9°090	20°725					41425	11	14°583	15°549
41115	9	20°095	13°954	41189	9	11°881	20°698					41426	10	18°560	15°881
41116	9	22°800	13°585	41190	10	18°645	20°672					41427	10	18°736	15°184
41117*	26	23°754	13°754	41191	12	20°909	20°424					41428	12	24°479	15°297
41118	20	24°859	13°639	41192	19	1°551	21°553					41429	11	2°177	16°864
41119	9	25°673	13°693	41193*	52	2°681	21°861					41430	11	4°241	16°621

R. A. 15^h 54^m

Plate 1816; 1901 May 20.

Provisional Constants.

A	B	C
-00044	+00721	+4132

D	E	F
-00707	-00050	-5550

Mag. = 15.4 - 1.25√d

No.	d	x	y
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41302	19	5°011	0°935
41303	10	9°710	0°891
41304	10	15°177	0°967
41305	20	25°708	0°823
41306	22	2°669	1°261
41307	11	5°155	1°375
41308	22	6°172	1°312
41309	13	8°895	1°746
41310	11	14°116	1°377
41311	10	16°400	1°630
41312	10	24°188	1°531
41313	12	6°238	2°502
41314	10	6°537	2°505
41315	12	10°425	2°597
41316*	73	11°956	2°369
41317*	36	14°380	2°015
41318	11	17°540	2°417
41319	9	17°719	2°980
41320	13	19°797	2°185
41321	10	19°976	2°770
41322	10	23°225	2°144
41323	28	0°212	3°287
41324	41	0°810	3°075
41325	10	3°026	3°306
41326	10	6°339	3°068
41327	11	6°609	3°756
41328	12	12°879	3°206
41329*	13	13°106	3°136
41330	12	14°289	3°383
41331	12	17°177	3°722
41332	16	17°624	3°639
41333*	19	20°593	3°905
41334	13	24°837	3°005
41335	22	1°255	4°071
41336	10	4°796	4°362
41337*	38	7°879	4°509
41338	12	8°738	4°748
41339	10	12°356	4°208
41340*	10	14°315	4°465
41341*	22	15°665	4°163
41342	13	19°658	4°113
41343	12	21°349	4°903
41344	10	22°625	4°005
41345	10	22°913	4°622
41346	10	23°018	4°826
41347	10	4°328	5°962
41348	9	6°761	5°283
41349	11	8°039	5°816
41350	10	11°881	5°324
41351*	22	14°499	5°823
41352	19	15°527	5°308
41353	10	20°097	5°321
41354*	32	21°419	5°400
41355	12	21°456	5°597
41356	10	24°304	5°677

41431	11	14°56'	16°37'	41505	42	0°25'	24°47'	41634	14	5°13'	3°73'	41708	9	18°49'	9°08'	41782	10	0°346'	18°021'
41432	11	16°51'	16°81'	41506	16	0°91'	24°16'	41635	8	5°79'	3°55'	41709	10	22°60'	9°315'	41783	8	1°779'	18°093'
41433	12	21°38'	16°99'	41507	12	5°409'	24°59'	41636	12	7°100'	3°977'	41710	11	25°588'	9°057'	41784	8	3°400'	18°746'
41434	9	22°263'	16°725'	41508	12	5°995'	24°321'	41637	30	9°450'	3°309'	41711	21	0°479'	10°655'	41785	10	4°570'	18°654'
41435	11	23°043'	16°310'	41509	17	10°203'	24°222'	41638	19	14°171'	3°818'	41712	9	1°288'	10°950'	41786	11	6°446'	18°298'
41436	22	2°574'	17°495'	41510	10	13°075'	24°347'	41639*	40	19°516'	3°586'	41713	7	5°984'	10°575'	41787	22	13°029'	18°905'
41437	10	3°585'	17°676'	41511	21	20°144'	24°582'	41640	14	20°225'	3°094'	41714	19	8°868'	10°917'	41788	9	14°249'	18°374'
41438	10	6°265'	17°946'	41512*	22	21°590'	24°148'	41641	23	20°372'	3°177'	41715	10	16°681'	10°206'	41789	9	15°691'	18°151'
41439	10	9°648'	17°393'	41513	22	22°396'	24°982'	41642	10	24°375'	3°535'	41716	22	17°551'	10°040'	41790	18	15°902'	18°127'
41440	12	11°556'	17°420'	41514	28	2°484'	25°680'	41643	8	1°581'	4°948'	41717	10	19°085'	10°412'	41791	7	16°317'	18°444'
41441	11	13°886'	17°644'	41515	15	5°963'	25°250'	41644	20	3°882'	4°079'	41718	14	21°106'	10°071'	41792	13	16°529'	18°586'
41442	10	16°670'	17°122'	41516	13	10°983'	25°459'	41645	11	5°495'	4°447'	41719	8	21°654'	10°394'	41793	30	18°783'	18°470'
41443	10	17°542'	17°298'	41517	10	15°815'	25°408'	41646	21	10°990'	4°112'	41720	11	0°345'	11°153'	41794*	20	18°996'	18°061'
41444*	19	19°235'	17°109'	41518	13	17°105'	25°937'	41647	12	14°426'	4°092'	41721	10	1°924'	11°970'	41795	28	0°743'	19°556'
41445	13	20°681'	17°037'	41519	12	17°689'	25°960'	41648	9	14°500'	4°348'	41722	12	7°178'	11°861'	41796*	18	3°995'	19°023'
41446*	24	21°410'	17°019'	41520	10	19°306'	25°445'	41649	7	14°713'	4°659'	41723*	25	7°237'	11°737'	41797	7	6°658'	19°885'
41447*	13	21°495'	17°227'	41521	12	20°745'	25°412'	41650	9	20°329'	4°593'	41724	11	8°424'	11°241'	41798*	20	8°283'	19°837'
41448	13	24°395'	17°676'	41522	17	22°790'	25°755'	41651	12	21°735'	4°668'	41725	9	14°253'	11°602'	41799	9	8°317'	19°599'
41449	11	1°700'	18°636'					41652	8	23°398'	4°773'	41726	9	14°550'	11°446'	41800	8	12°035'	19°936'
41450	12	2°562'	18°589'					41653	15	23°708'	4°449'	41727	17	16°678'	11°964'	41801	9	15°211'	19°818'
41451	22	3°118'	18°092'					41654	9	2°413'	5°755'	41728	11	18°083'	11°605'	41802	19	20°495'	19°359'
41452	11	6°675'	18°158'					41655	18	2°509'	5°635'	41729	9	20°053'	11°574'	41803	8	21°802'	19°074'
41453	12	24°665'	18°354'					41656	10	9°805'	5°474'	41730	7	22°380'	11°021'	41804	8	25°828'	19°719'
41454	22	25°049'	18°995'					41657	8	15°776'	5°036'	41731	18	25°115'	11°641'	41805	12	4°224'	20°694'
41455	12	6°375'	19°342'					41658	12	16°320'	5°164'	41732	7	25°482'	11°204'	41806	20	6°579'	20°095'
41456	10	8°382'	19°783'					41659	20	16°474'	5°390'	41733*	40	25°612'	11°247'	41807	9	10°777'	20°236'
41457*	19	11°692'	19°456'					41660	9	16°899'	5°367'	41734	10	2°290'	12°058'	41808	12	24°621'	20°342'
41458	11	12°352'	19°137'					41661	8	19°086'	5°094'	41735	8	7°144'	12°976'	41809	21	25°009'	20°364'
41459	19	13°901'	19°046'					41662	7	23°750'	5°741'	41736	22	18°160'	12°704'	41810	7	25°658'	20°431'
41460	11	18°057'	19°672'					41663	20	24°731'	5°467'	41737	10	19°872'	12°136'	41811	13	1°853'	21°705'
41461	10	22°377'	19°431'					41664*	22	25°415'	5°267'	41738	8	1°870'	13°247'	41812	9	6°065'	21°124'
41462	11	24°208'	19°426'					41665	10	3°295'	6°403'	41739	13	2°587'	13°465'	41813	8	7°965'	21°050'
41463	19	4°321'	20°730'					41666	20	3°490'	6°161'	41740	10	8°373'	13°082'	41814	16	10°612'	21°714'
41464*	32	7°222'	20°977'					41667	10	6°085'	6°627'	41741	27	12°254'	13°075'	41815	9	12°939'	21°869'
41465	13	11°655'	20°348'					41668	8	8°192'	6°078'	41742	11	24°419'	13°484'	41816	26	15°555'	21°288'
41466	10	11°794'	20°222'					41669	10	8°924'	6°013'	41743	7	25°864'	13°309'	41817	8	17°038'	21°205'
41467	16	12°119'	20°954'					41670	8	13°260'	6°269'	41744	8	3°215'	14°991'	41818	27	18°496'	21°264'
41468	19	15°773'	20°556'					41671	17	13°980'	6°667'	41745	17	3°779'	14°378'	41819	7	22°477'	21°552'
41469	10	16°476'	20°327'					41672	12	18°207'	6°516'	41746	7	3°949'	14°360'	41820	10	23°780'	21°461'
41470	10	17°003'	20°811'					41673	22	18°836'	6°754'	41747	20	5°751'	14°866'	41821*	47	24°424'	21°160'
41471	11	17°773'	20°066'					41674	8	19°342'	6°356'	41748	13	19°574'	14°331'	41822	14	4°965'	22°541'
41472	10	19°329'	20°522'					41675	7	21°164'	6°547'	41749	8	23°441'	14°693'	41823	10	8°262'	22°569'
41473	13	2°685'	21°474'					41676	22	24°807'	6°921'	41750	24	25°753'	14°997'	41824	19	10°003'	22°847'
41474	14	2°798'	21°975'					41677	18	1°380'	7°851'	41751	11	0°114'	15°868'	41825	21	10°178'	22°598'
41475	17	4°595'	21°457'					41678	21	3°791'	7°472'	41752	23	4°732'	15°936'	41826	9	15°331'	22°557'
41476	10	4°908'	21°275'					41679	8	8°559'	7°346'	41753	9	6°751'	15°073'	41827	8	16°546'	22°428'
41477	12	7°314'	21°588'					41680	8	9°434'	7°023'	41754	10	9°467'	15°520'	41828	8	16°640'	22°325'
41478	10	11°067'	21°018'					41681	8	10°977'	7°470'	41755	17	11°926'	15°202'	41829	7	18°453'	22°033'
41479	12	15°084'	21°929'					41682	19	11°071'	7°706'	41756	8	12°089'	15°380'	41830	8	18°682'	22°552'
41480	11	15°879'	21°856'					41683	8	11°670'	7°255'	41757	17	15°098'	15°162'	41831	19	22°179'	22°801'
41481	10	21°616'	21°976'					41684	22	12°204'	7°311'	41758	8	21°170'	15°090'	41832	8	24°876'	22°937'
41482	10	23°112'	21°325'					41685	7	12°955'	7°587'	41759	18	23°967'	15°938'	41833	22	25°661'	22°642'
41483	9	25°521'	21°149'					41686	20	15°927'	7°408'	41760	7	24°349'	15°930'	41834	10	2°842'	23°091'
41484	30	1°506'	22°643'					41687*	29	18°964'	7°948'	41761	8	25°652'	15°782'	41835	29	3°631'	23°885'
41485	11	6°754'	22°823'					41688	20	19°371'	7°604'	41762	12	25°977'	15°450'	41836	11	4°032'	23°900'
41486	10	8°055'	22°937'					41689	7	24°908'	7°614'	41763	10	1°618'	16°562'	41837	11	4°805'	23°016'
41487	12	8°135'	22°780'					41690*	28	24°940'	7°396'	41764	8	8°078'	16°290'	41838	12	4°806'	23°717'
41488	22	12°544'	22°395'					41691	9	0°999'	8°755'	41765	8	8°620'	16°356'	41839	28	9°947'	23°896'
41489	12	13°971'	22°835'					41692	15	1°373'	8°012'	41766*	25	14°548'	16°199'	41840	8	10°413'	23°819'
41490	12	16°385'	22°307'					41693*	21	3°974'	8°807'	41767	11	15°414'	16°883'	41841*	23	13°267'	23°470'
41491	12	17°124'	22°594'					41694*	18	6°550'	8°782'	41768*	30	18°615'	16°569'	41842	8	18°564'	23°380'
41492	10	21°299'	22°942'					41695	20	18°774'	8°342'	41769	9	20°749'	16°311'	41843	10	24°089'	23°781'
41493	12	21°680'	22°713'					41696*	41	18°808'	8°426'	41770	8	21°257'	16°420'	41844	13	9°112'	24°645'
41494	10	22°399'	22°293'					41697	9	22°638'	8°709'	41771	9	24°360'	16°087'	41845	7	11°912'	24°852'
41495	10	23°371'	22°229'					41698	10	22°833'	8°847'	41772	8	24°843'	16°464'	41846	10	13°046'	24°552'
41496*	42	1°248'	23°079'					41699	18	25°939'	8°119'	41773	9	3°109'	17°119'	41847	10	15°898'	24°342'
41497	22	5°274'	23°597'					41700	11	2°006'	9°994'	41774	9	4°548'	17°012'	41848	9	16°551'	24°980'
41498	10	6°908'	23°520'					41701	7	4°923'	9°286'	41775	22	5°748'	17°153'	41849	20	12°043'	25°72

R. A. 16^h 12^m

Plate 1818; 1901 June 25.

Provisional Constants.

A	B	C
-00053	-00070	-0733

D	E	F
+00069	-00051	-2029

Mag. = 14.9 - 1.25 $\sqrt{d}$

No.	d	x	y
41901	16	2.334	0.399
41902	11	4.311	0.565
41903	12	4.736	0.572
41904	19	5.942	0.064
41905	11	9.093	0.816
41906	10	10.014	0.085
41907	11	12.004	0.607
41908	8	12.644	0.722
41909	9	18.912	0.716
41910	10	20.804	0.889
41911	8	6.323	1.105
41912	11	6.341	1.512
41913	10	8.792	1.992
41914	10	12.111	1.404
41915	10	16.345	1.801
41916	12	20.762	1.544
41917	10	22.189	1.909
41918*	22	22.881	1.085
41919	12	3.248	2.925
41920	10	6.246	2.274
41921	22	6.420	2.440
41922	8	7.369	2.671
41923	9	10.389	2.513
41924	10	14.373	2.642
41925	17	14.705	2.464
41926	11	15.805	2.711
41927	19	18.502	2.662
41928	7	20.199	2.017
41929	9	21.141	2.892
41930	12	3.009	3.427
41931	9	5.500	3.895
41932	10	10.319	3.884
41933	11	12.855	3.210
41934	10	18.017	3.219
41935	8	19.174	3.753
41936	10	19.348	3.462
41937	11	21.606	3.974
41938	12	4.721	4.861
41939*	26	5.263	4.740
41940	12	9.791	4.292
41941	10	10.755	4.149
41942	10	12.332	4.369
41943	10	14.331	4.502
41944	12	16.572	4.902
41945	10	18.433	4.974
41946	21	0.796	5.540
41947*	22	1.473	5.327
41948	9	4.234	5.563
41949	10	5.751	5.376
41950	8	5.801	5.398
41951	9	5.960	5.881
41952	15	8.906	5.826
41953	8	9.795	5.062
41954	13	15.496	5.738
41955	18	16.480	5.967
41956	11	20.627	5.339

41957	8	20.800	5.266	42031	8	1.668	15.864
41958	14	21.861	5.378	42032	9	1.859	15.838
41959	9	22.619	5.970	42033	19	1.950	15.050
41960	10	23.597	5.530	42034	11	2.179	15.500
41961	9	25.648	5.465	42035	15	3.035	15.850
41962	22	0.889	6.991	42036	10	3.637	15.888
41963	12	3.851	6.974	42037	10	3.764	15.252
41964	18	4.957	6.189	42038	10	9.793	15.115
41965	11	7.252	6.267	42039	10	25.355	15.280
41966	10	11.265	6.168	42040	17	0.174	16.014
41967	9	11.406	6.694	42041	9	0.570	16.159
41968	10	19.085	6.876	42042	10	1.058	16.532
41969	11	22.594	6.878	42043	12	2.235	16.322
41970	10	25.098	6.087	42044	10	9.107	16.438
41971*	25	1.028	7.466	42045	10	9.155	16.489
41972*	21	5.670	7.391	42046	12	17.048	16.645
41973	9	6.112	7.058	42047	9	23.555	16.368
41974	10	10.050	7.911	42048	14	2.447	17.844
41975	11	14.019	7.049	42049	9	8.865	17.775
41976*	22	15.149	7.330	42050	12	14.222	17.680
41977*	11	20.965	7.923	42051	11	16.582	17.852
41978*	10	21.696	7.861	42052	15	17.503	17.849
41979*	33	23.762	7.720	42053	10	20.108	17.881
41980*	20	25.061	7.397	42054	8	22.841	17.347
41981	12	2.038	8.171	42055	10	23.489	17.782
41982	8	2.330	8.579	42056	9	24.907	17.864
41983	10	6.489	8.545	42057	10	25.459	17.163
41984	13	7.415	8.815	42058	9	10.896	18.985
41985	10	8.626	8.932	42059	10	11.860	18.307
41986*	52	12.148	8.867	42060	9	16.074	18.799
41987	10	16.330	8.922	42061	9	18.156	18.223
41988	9	16.831	8.894	42062	13	19.883	18.416
41989*	13	21.105	8.669	42063	9	23.660	18.067
41990	9	23.033	8.233	42064	10	24.862	18.851
41991	10	24.739	8.010	42065	11	2.089	19.774
41992	10	1.701	9.114	42066	9	3.268	19.779
41993	9	2.565	9.478	42067	9	3.546	19.540
41994	18	4.104	9.713	42068*	12	5.575	19.153
41995	10	8.551	9.795	42069	10	5.924	19.212
41996	11	20.193	9.751	42070	11	6.337	19.813
41997	8	22.162	9.602	42071	10	18.639	19.480
41998	9	22.671	9.891	42072	10	19.519	19.546
41999	9	22.964	9.255	42073	13	22.775	19.690
42000	12	2.944	10.150	42074	12	0.892	20.414
42001	8	9.305	10.518	42075	22	1.281	20.431
42002	13	14.309	10.442	42076	10	2.341	20.713
42003	12	14.764	10.944	42077*	19	5.547	20.953
42004	7	22.795	10.139	42078*	8	8.481	20.244
42005	8	23.351	10.445	42079	10	10.315	20.606
42006	12	25.404	10.139	42080	12	13.423	20.421
42007	16	1.263	11.707	42081	9	14.242	20.909
42008*	33	1.755	11.305	42082	10	18.194	20.848
42009	11	3.073	11.698	42083	9	18.482	20.466
42010	9	7.164	11.096	42084*	21	20.348	20.649
42011	12	12.778	11.341	42085	10	20.937	20.726
42012	14	12.942	11.685	42086	12	0.063	21.545
42013*	42	16.232	11.489	42087*	32	0.706	21.233
42014	13	20.274	11.707	42088	7	8.239	21.861
42015	9	21.923	11.191	42089	8	10.740	21.512
42016	20	13.295	12.599	42090	15	12.846	21.331
42017	17	21.055	12.301	42091*	21	14.795	21.719
42018	15	0.595	13.560	42092	7	16.638	21.946
42019	9	4.619	13.921	42093	8	19.367	21.700
42020	8	9.713	13.553	42094	9	19.644	21.423
42021	8	10.109	13.827	42095	8	21.055	21.942
42022*	19	15.012	13.765	42096	10	21.746	21.861
42023*	15	15.284	13.398	42097	10	24.877	21.322
42024	10	20.930	13.071	42098	22	1.964	22.699
42025	10	23.067	13.580	42099*	21	4.337	22.272
42026	10	9.088	14.821	42100	11	4.696	22.576
42027	12	9.923	14.955	42101	7	8.866	22.209
42028	12	21.141	14.634	42102	10	11.245	22.521
42029	8	22.880	14.149	42103	9	12.360	22.095
42030	9	25.155	14.401	42104	10	12.846	22.231

42105*	22	13.574	22.517	42222	15	23.584	1.410
42106	11	13.855	22.928	42223	16	2.051	2.547
42107	10	14.355	22.932	42224	24	6.371	2.282
42108	9	16.432	22.855	42225	11	8.163	2.723
42109	10	17.308	22.319	42226	14	8.654	2.193
42110	10	22.775	22.877	42227	9	15.199	2.484
42111	12	3.315	23.039	42228	8	16.226	2.840
42112	10	8.430	23.682	42229	10	16.458	2.213
42113	10	17.867	23.067	42230*	31	18.843	2.005
42114	19	17.962	23.721	42231	8	19.420	2.312
42115	10	21.569	23.755	42232	16	2.328	3.536
42116	11	24.301	23.626	42233	12	6.741	3.498
42117	12	24.511	23.237	42234	20	11.410	3.939
42118*	15	6.152	24.653	42235	8	14.221	3.151
42119	18	7.059	24.612	42236	19	14.768	3.068
42120*	32	7.061	24.633	42237	10	19.743	3.703
42121	12	9.700	24.298	42238	8	21.305	3.606
42122	8	20.883	24.472	42239	30	7.046	4.717
42123	10	23.689	24.801	42240	9	8.597	4.208
42124	11	25.192	24.123	42241	8	13.074	4.495
42125	10	9.141	25.242	42242	8	14.477	4.824
42126	9	9.893	25.732	42243	8	15.676	4.718
42127	10	13.460	25.531	42244	15	15.940	4.162
42128	8	13.784	25.787	42245*	27	17.003	4.429
42129	9	14.585	25.118	42246	16	17.456	4.797
42130	10	14.886	25.611	42247	8	17.659	4.428
42131	9	15.512	25.162	42248	9	20.031	4.072
42132	11	17.086	25.602	42249	14	21.255	4.992
42133	8	17.600	25.451	42250	8	21.456	4.464
42134	11	22.949	25.439	42251	21	21.967	4.695
				42252	8	22.248	4.672
				42253	10	22.295	4.784
				42254	27	23.550	4.011
				42255	9	1.133	5.088
				42256	10	1.669	5.350
				42257*	29	3.281	5.980
				42258	11	4.517	5.500
				42259	12	6.166	5.322
				42260*	23	8.688	5.098
				42261	12	10.802	5.437
				42262	11	11.721	5.700
				42263	9	12.685	5.368
				42264	8	13.502	5.692
				42265	11	17.688	5.616
				42266*	29	21.695	5.262
				42267*	20	2.331	6.882
				42			

42296	22	2'213	9'743	42370	8	6'165	18'727	42444	11	13'699	25'677	42543	8	21'249	4'788	42617	10	6'295	11'200
42297	10	2'239	9'760	42371*	24	9'822	18'268	42445	20	14'946	25'623	42544	8	22'020	4'038	42618	10	6'321	11'734
42298*	23	5'230	9'144	42372	7	10'253	18'818	42446	21	15'558	25'209	42545	10	22'491	4'533	42619	8	7'476	11'900
42299	12	7'170	9'147	42373*	33	11'520	18'923	42447	9	17'479	25'517	42546	9	23'250	4'012	42620*	30	8'752	11'859
42300	10	7'211	9'788	42374	22	15'925	18'291	42448*	34	17'498	25'320	42547	11	25'713	4'434	42621	12	10'591	11'183
42301*	19	7'534	9'091	42375	20	16'084	18'539	42449	10	18'998	25'044	42548	12	2'260	5'291	42622	9	17'237	11'514
42302*	11	14'729	9'088	42376	8	20'939	18'862	42450	11	20'655	25'223	42549	10	2'669	5'281	42623*	12	18'678	11'688
42303	8	16'747	9'170	42377	9	22'555	18'228	42451	16	21'116	25'693	42550	9	2'990	5'276	42624	13	19'019	11'292
42304	12	18'674	9'499	42378	12	6'116	19'106	42452	10	22'118	25'616	42551	12	3'794	5'924	42625	10	22'421	11'297
42305	9	21'732	9'217	42379	10	10'228	19'517					42552	11	11'915	5'392	42626	8	23'376	11'562
42306	20	23'979	9'705	42380*	22	13'650	19'003					42553	10	13'310	5'659	42627	9	25'828	11'155
42307	8	24'258	9'514	42381	20	20'044	19'542					42554	8	16'229	5'645	42628	12	4'353	12'763
42308	8	25'644	9'638	42382	8	21'442	19'259					42555	9	18'831	5'660	42629	10	4'364	12'759
42309	12	25'866	9'449	42383	18	21'595	19'153					42556	20	19'371	5'195	42630	9	5'166	12'107
42310	17	1'523	10'029	42384	8	23'815	19'504					42557	8	19'785	5'933	42631	10	7'932	12'238
42311	23	2'197	10'530	42385*	20	4'390	20'888					42558	13	25'744	5'875	42632	8	8'062	12'110
42312	9	2'754	10'685	42386*	42	10'057	20'069					42559	7	6'181	6'126	42633	12	8'575	12'115
42313	11	9'860	10'463	42387	15	10'168	20'685					42560	12	12'232	6'730	42634	10	8'839	12'242
42314	27	13'863	10'587	42388	8	10'905	20'600					42561	13	13'140	6'023	42635*	21	10'491	12'863
42315	18	14'978	10'396	42389	10	14'236	20'208					42562	11	16'354	6'217	42636	13	12'264	12'940
42316	9	18'101	10'539	42390*	23	17'624	20'344					42563	9	16'500	6'369	42637	11	18'081	12'542
42317	20	23'263	10'546	42391	20	22'182	20'779					42564	10	17'815	6'312	42638	12	20'978	12'449
42318	11	23'311	10'314	42392	8	24'087	20'873					42565	17	3'243	7'248	42639*	12	21'259	12'153
42319	12	24'096	10'417	42393	10	24'598	20'184					42566	8	4'421	7'342	42640	9	24'640	12'245
42320	8	1'747	11'198	42394	9	24'934	20'842					42567	11	5'312	7'465	42641	11	5'361	13'600
42321	9	4'542	11'595	42395	12	1'229	21'219					42568	10	16'721	7'837	42642*	24	16'772	13'696
42322	14	8'649	11'286	42396*	26	2'672	21'632					42569	11	17'097	7'308	42643*	34	17'534	13'701
42323	10	10'096	11'039	42397	8	5'231	21'715					42570	12	20'250	7'006	42644	13	17'887	13'433
42324	25	11'242	11'118	42398	11	6'180	21'886					42571*	30	22'654	7'572	42645	9	23'875	13'725
42325*	22	11'552	11'968	42399*	39	6'813	21'046					42572*	21	23'551	7'230	42646	12	2'057	14'399
42326	19	12'093	11'717	42400	10	7'264	21'255					42573	22	1'073	8'521	42647	9	4'554	14'596
42327*	28	15'387	11'018	42401	11	9'436	21'333					42574	9	4'231	8'614	42648	20	12'056	14'902
42328	30	19'336	11'333	42402*	28	9'891	21'890					42575	12	8'329	8'379	42649	14	17'351	14'447
42329	27	3'591	12'431	42403	10	15'256	21'418					42576	9	8'630	8'695	42650	9	22'286	14'800
42330	14	9'072	12'853	42404	10	17'689	21'830					42577	8	9'119	8'887	42651	10	24'949	14'825
42331*	41	12'159	12'484	42405	8	18'719	21'821					42578	11	10'142	8'088	42652	10	4'205	15'660
42332	12	13'305	12'251	42406	20	19'630	21'250					42579	12	15'361	8'401	42653	8	6'916	15'981
42333*	28	17'441	12'506	42407	7	21'244	21'410					42580	9	15'632	8'167	42654	20	15'075	15'725
42334	10	22'183	12'867	42408	10	3'850	22'762					42581	11	20'625	8'736	42655	12	19'632	15'591
42335	9	3'086	13'939	42409	9	4'689	22'051					42582	10	21'094	8'025	42656	12	20'618	15'079
42336	18	7'977	13'110	42410	11	8'697	22'408					42583	12	23'450	8'115	42657	12	22'960	15'372
42337	21	11'927	13'198	42411	20	9'031	22'225					42584*	20	23'955	8'648	42658	12	23'706	15'079
42338	9	20'452	13'494	42412	7	12'770	22'454					42585	9	24'592	8'085	42659	11	0'710	16'310
42339	12	22'024	13'165	42413	19	13'308	22'354					42586	19	0'129	9'887	42660	12	8'235	16'734
42340	15	5'372	14'996	42414	8	14'558	22'081					42587	10	1'794	9'786	42661	7	9'398	16'289
42341	8	6'299	14'227	42415	8	15'717	22'263					42588	12	2'011	9'592	42662	12	13'318	16'416
42342	9	9'758	14'223	42416	10	17'155	22'470					42589	8	2'585	9'018	42663	10	17'593	16'936
42343	10	12'615	14'404	42417	8	17'522	22'089					42590	10	3'003	9'305	42664	11	17'759	16'441
42344	10	15'952	14'770	42418	7	19'344	22'718					42591	8	3'341	9'339	42665	12	19'176	16'850
42345	8	22'636	14'973	42419	10	21'659	22'803					42592	10	6'122	9'124	42666	10	19'234	16'628
42346	9	23'485	14'519	42420	7	24'197	22'574					42593	9	11'639	9'509	42667	10	19'836	16'741
42347	11	25'818	14'251	42421	19	24'569	22'270					42594	11	13'550	9'858	42668	11	21'761	16'526
42348	12	1'581	15'167	42422	12	0'905	23'143					42595	10	17'461	9'515	42669	12	25'194	16'302
42349	11	2'312	16'612	42423	21	11'879	23'438					42596	12	17'640	9'605	42670	22	1'787	17'620
42350	8	5'929	16'569	42424	17	18'106	23'969					42597	9	17'679	9'737	42671	19	3'120	17'605
42351	9	8'449	16'859	42425	12	18'999	23'695					42598	12	18'190	9'156	42672*	12	4'146	17'711
42352	10	9'053	16'347	42426	8	20'728	23'619					42599	9	21'573	9'031	42673	9	8'757	17'131
42353	16	11'752	16'218	42427	12	24'416	23'061					42600	11	22'780	9'336	42674	10	9'513	17'352
42354	9	13'937	16'659	42428	12	3'415	24'251					42601	13	0'264	10'596	42675	20	15'354	17'476
42355	12	14'041	16'906	42429	18	3'535	24'083					42602	8	7'355	10'254	42676	9	19'491	17'800
42356	10	16'487	16'386	42430*	20	5'065	24'780					42603	13	13'539	10'753	42677	12	19'652	17'289
42357	11	16'653	16'141	42431	9	12'283	24'508					42604	13	15'646	10'102	42678	9	19'765	17'082
42358	10	20'215	16'899	42432	8	12'704	24'603					42605	11	19'937	10'123	42679	10	20'778	17'775
42359	8	22'371	16'843	42433	14	14'625	24'736					42606	10	20'265	10'055	42680*	20	22'251	17'656
42360	12	1'186	17'762	42434*	26	14'984	24'655					42607	11	20'930	10'602	42681*	20	22'700	17'877
42361	10	1'722	17'049	42435	18	15'410	24'898					42608	10	21'653	10'764	42682	9	25'135	17'070
42362	10	4'702	17'167	42436	17	16'088	24'228					42609	9	22'029	10'634	42683	13	4'325	18'674
42363	27	10'100	17'329	42437	8	16'311	24'350					42610	10	22'214	10'987	42684	11	8'450	18'900
42364	9	10'617	17'686	42438	7	17'124	24'956					42611	10	24'152	10'576	42685	9	8'615	18'861

42691	9	22°870	18°652	42765	11	15°968	24°764	42825	8	11°568	2°556	42899	10	4°794	9°112	42973	12	4°632	16°208
42692	9	23°856	18°736	42766	9	17°399	24°269	42826	11	16°750	2°563	42900	10	8°615	9°828	42974	10	5°964	16°460
42693	18	0°164	19°686	42767	10	18°300	24°231	42827	9	19°509	2°892	42901*	13	13°259	9°389	42975	16	12°821	16°252
42694	13	9°325	19°953	42768	8	18°600	24°834	42828*	15	22°680	2°965	42902	9	16°566	9°041	42976	8	23°042	16°330
42695	10	9°565	19°080	42769	9	19°631	24°863	42829*	22	23°420	2°897	42903	9	22°442	9°942	42977	10	24°390	16°749
42696	9	10°511	19°264	42770	11	21°845	24°576	42830	8	23°657	2°518	42904	11	24°893	9°849	42978	18	6°257	17°956
42697	11	11°620	19°875	42771	12	22°829	24°540	42831*	34	3°872	3°264	42905	11	0°355	10°461	42979	10	6°794	17°683
42698	9	12°921	19°934	42772	9	23°228	24°973	42832	10	4°182	3°420	42906	10	1°901	10°094	42980*	13	7°962	17°889
42699	16	17°515	19°164	42773	12	4°288	25°706	42833	15	6°568	3°679	42907	10	2°412	10°997	42981	10	10°003	17°061
42700	8	17°892	19°821	42774	16	5°586	25°329	42834	10	7°199	3°012	42908	10	6°010	10°923	42982	18	11°980	17°371
42701	9	22°723	19°326	42775	10	6°294	25°557	42835	10	11°530	3°694	42909	8	8°755	10°089	42983	11	12°730	17°030
42702	10	23°449	19°885	42776	10	9°021	25°594	42836	10	12°950	3°132	42910	9	9°804	10°492	42984*	34	15°818	17°668
42703	11	24°880	19°698	42777	10	10°521	25°985	42837	10	15°525	3°148	42911	10	9°853	10°000	42985	10	16°265	17°263
42704	9	25°043	19°545	42778	9	10°820	25°571	42838	17	18°197	3°432	42912	8	10°401	10°629	42986	11	18°687	17°449
42705	10	25°046	19°140	42779	11	11°114	25°470	42839	10	21°235	3°978	42913	11	11°453	10°993	42987	9	20°649	17°817
42706	13	0°957	20°354	42780	9	11°124	25°484	42840*	26	21°832	3°821	42914	11	15°227	10°628	42988	10	22°265	17°118
42707*	21	6°880	20°815	42781*	21	11°359	25°005	42841	10	21°862	3°424	42915	10	17°501	10°231	42989	10	4°553	18°446
42708	9	7°570	20°167	42782	9	11°510	25°686	42842	17	22°907	3°793	42916	8	19°302	10°557	42990	10	6°274	18°543
42709	8	9°410	20°882	42783	10	12°518	25°208	42843	11	1°795	4°289	42917	10	21°310	10°832	42991	9	12°231	18°082
42710	10	11°234	20°920	42784	8	13°015	25°665	42844	21	7°149	4°177	42918	8	21°418	10°364	42992	10	13°817	18°113
42711	10	12°081	20°144	42785	10	16°596	25°661	42845	10	9°268	4°516	42919	12	23°469	10°545	42993	19	14°782	18°453
42712	10	13°421	20°947	42786	9	17°188	25°540	42846	10	10°796	4°389	42920*	11	24°500	10°400	42994	10	15°782	18°378
42713	8	14°075	20°355	42787	11	18°596	25°754	42847	9	16°862	4°917	42921	10	25°337	10°460	42995	9	21°050	18°091
42714	9	14°513	20°429	42788	9	18°614	25°106	42848*	36	19°679	4°240	42922	9	3°171	11°088	42996	10	24°167	18°664
42715	9	14°878	20°181	42789	8	18°906	25°577	42849*	22	19°972	4°851	42923	21	4°347	11°637	42997	13	25°824	18°315
42716	10	18°121	20°701	42790	9	19°811	25°055	42850*	17	21°360	4°343	42924	10	4°691	11°096	42998	10	1°419	19°006
42717	9	19°081	20°281	42791*	34	22°555	25°237	42851	9	23°033	4°274	42925	21	5°682	11°682	42999	10	5°491	19°584
42718	11	21°839	20°916					42852	10	24°652	4°670	42926	10	7°669	11°500	43000*	21	5°590	19°021
42719	10	23°101	20°557					42853	10	25°419	4°736	42927	10	9°827	11°991	43001	10	8°071	19°028
42720	12	23°667	20°006					42854	8	25°523	4°712	42928	10	14°241	11°694	43002	8	8°208	19°339
42721	10	0°463	21°054					42855	22	1°852	5°731	42929	10	15°440	11°865	43003	11	8°723	19°179
42722*	40	2°416	21°942					42856	10	8°174	5°511	42930	12	17°150	11°501	43004	13	13°055	19°815
42723*	24	5°279	21°104					42857	10	12°188	5°313	42931	10	22°060	11°795	43005	10	13°364	19°090
42724	9	6°343	21°330					42858	11	15°042	5°623	42932	12	22°642	11°594	43006	16	14°865	19°151
42725	8	7°964	21°496					42859	11	16°168	5°168	42933	10	25°341	11°381	43007	10	15°885	19°007
42726	12	8°661	21°168					42860	13	18°059	5°001	42934	10	0°877	12°122	43008*	44	18°623	19°018
42727	9	9°844	21°497					42861	22	18°567	5°322	42935*	32	2°969	12°208	43009	10	22°104	19°689
42728	9	12°883	21°361					42862	9	19°606	5°720	42936	10	3°632	12°941	43010	11	22°802	19°252
42729	10	14°029	21°770					42863	8	21°319	5°803	42937	10	10°454	12°856	43011*	41	24°749	19°464
42730	11	15°855	21°455					42864	10	21°936	5°109	42938*	13	15°262	12°944	43012*	19	2°902	20°313
42731	13	19°544	21°331					42865	10	22°574	5°600	42939	11	19°275	12°890	43013	10	3°670	20°709
42732	14	19°794	21°109					42866	11	24°371	5°602	42940	10	24°786	12°490	43014	13	5°279	20°993
42733	7	20°696	21°645					42867	12	24°381	5°558	42941	9	0°138	13°618	43015	10	6°005	20°507
42734	8	20°731	21°799					42868	10	2°700	6°690	42942	10	3°349	13°663	43016	10	9°584	20°732
42735	10	21°168	21°937					42869	10	3°788	6°755	42943	17	3°362	13°368	43017	8	13°564	20°738
42736	12	21°650	21°581					42870	12	13°143	6°521	42944	10	4°647	13°049	43018	13	14°692	20°519
42737	10	23°166	21°565					42871*	13	14°023	6°072	42945	9	14°411	13°823	43019	13	16°677	20°167
42738	24	0°971	22°438					42872	11	16°515	6°113	42946	10	14°532	13°022	43020	10	19°713	20°626
42739*	20	3°056	22°857					42873	10	16°562	6°500	42947	10	19°540	13°080	43021	10	20°428	20°248
42740	12	4°289	22°955					42874	10	20°830	6°958	42948	19	21°718	13°762	43022*	22	23°563	20°168
42741	10	4°394	22°637					42875	9	24°545	6°544	42949	22	0°000	14°976	43023	13	3°236	21°125
42742	8	5°315	22°184					42876	9	25°367	6°678	42950	12	1°237	14°700	43024	10	4°707	21°254
42743	7	7°592	22°345					42877	10	0°748	7°966	42951	10	2°923	14°849	43025	10	5°538	21°989
42744	8	7°744	22°383					42878	13	4°154	7°328	42952*	22	8°080	14°236	43026	10	7°810	21°723
42745	10	14°615	22°518					42879	10	9°443	7°742	42953	10	9°013	14°237	43027	9	10°176	21°065
42746	9	18°851	22°184					42880	12	11°434	7°622	42954	10	14°584	14°566	43028	10	10°968	21°252
42747	7	21°852	22°322					42881	11	14°121	7°942	42955	9	18°866	14°214	43029	9	13°793	21°023
42748	10	22°562	22°034					42882	8	14°825	7°815	42956	9	19°845	14°700	43030	10	16°495	21°681
42749	13	24°224	22°925					42883	10	18°451	7°798	42957	10	23°092	14°931	43031	14	19°062	21°360
42750	12	25°601	22°950					42884	10	19°764	7°110	42958	8	23°557	14°030	43032	9	19°831	21°354
42751	16	0°832	23°234					42885	9	20°609	7°270	42959	12	3°196	15°614	43033	9	19°938	21°191
42752	13	2°619	23°309					42886*	22	21°909	7°944	42960	10	7°272	15°337	43034	13	20°816	21°143
42753	11	7°757	23°235					42887	11	23°601	7°528	42961	10	10°805	15°493	43035	10	21°209	21°659
42754	8	11°288	23°804					42888	10	23°672	7°911	42962	10	15°452	15°339	43036	10	23°250	21°901
42755	12	11°726	23°033					42889	10	25°296	7°137	42963	10	19°888	15°863	43037	17	2°049	22°808
42756	9	16°463	23°495					42890	10	25°558	7°019	42964	10	21°639	15°708	43038	8	4°237	22°401
42757	11	18°464	23°115					42891*	26	0°120	8°540	42965	22	21°767	15°456	43039	10	12°632	22°795

43047	10	7°249	23°942	43117*	27	7°811	2°557	43191	12	1°303	10°874	43265	12	17°221	17°197	43339	13	17°544	25°932
43048*	27	8°119	23°524	43118	17	14°159	2°195	43192	13	5°614	10°020	43266	13	21°053	17°620	43340	21	21°915	25°266
43049	10	12°765	23°696	43119	10	15°230	2°334	43193	11	8°928	10°212	43267	10	24°442	17°586	43341	15	22°109	25°372
43050*	28	13°232	23°700	43120	10	15°882	2°094	43194	18	9°337	10°405	43268	17	1°927	18°719	43342	22	24°058	25°200
43051	10	14°295	23°764	43121	12	17°134	2°275	43195	11	9°811	10°236	43269	10	7°098	18°788				
43052	10	17°666	23°772	43122	9	17°974	2°171	43196	10	16°500	10°873	43270	12	14°556	18°259				
43053	8	18°047	23°088	43123	12	18°083	2°981	43197*	19	18°769	10°590	43271	12	15°769	18°127				
43054	10	18°736	23°284	43124	22	20°220	2°182	43198*	23	18°983	10°316	43272	10	15°827	18°920				
43055	12	19°232	23°763	43125	10	21°611	2°410	43199	12	19°701	10°590	43273	10	17°399	18°288				
43056	10	19°271	23°100	43126	11	21°692	2°925	43200	10	21°220	10°159	43274	11	18°458	18°352				
43057	9	19°288	23°124	43127*	22	3°621	3°054	43201	10	25°009	10°299	43275*	35	25°840	18°593				
43058	23	19°425	23°956	43128	11	6°344	3°975	43202	11	25°047	10°250	43276*	33	0°873	19°888				
43059	10	21°375	23°993	43129*	12	7°438	3°686	43203	10	1°322	11°795	43277	19	5°108	19°854				
43060	9	21°724	23°711	43130	10	7°649	3°882	43204	12	5°501	11°944	43278*	32	6°745	19°079				
43061	10	21°909	23°586	43131	13	8°522	3°531	43205	10	9°326	11°801	43279*	39	7°014	19°581				
43062	13	22°536	23°528	43132	10	10°535	3°256	43206	10	9°627	11°076	43280	10	22°476	19°554				
43063*	33	24°055	23°599	43133	17	11°459	3°041	43207	10	14°164	11°181	43281	12	2°222	20°487				
43064*	18	24°548	23°485	43134	9	13°880	3°499	43208	12	16°571	11°647	43282	11	4°233	20°272				
43065	21	9°965	24°428	43135	10	15°166	3°590	43209	19	22°642	11°116	43283	10	6°191	20°399				
43066	10	10°416	24°467	43136	9	19°958	3°494	43210	10	24°909	11°343	43284*	31	13°604	20°951				
43067	19	10°592	24°569	43137	12	23°577	3°922	43211	15	0°789	12°913	43285	10	14°126	20°894				
43068	10	11°741	24°858	43138	11	24°400	3°388	43212	16	2°362	12°892	43286	10	18°246	20°917				
43069	10	19°195	24°669	43139	10	25°194	3°769	43213	10	4°820	12°242	43287	10	18°389	20°663				
43070	10	24°672	24°556	43140	15	2°283	4°990	43214	11	5°212	12°076	43288	10	18°860	20°780				
43071*	33	2°695	25°057	43141*	32	9°947	4°206	43215	9	6°083	12°956	43289	12	20°206	20°130				
43072	23	5°826	25°763	43142	22	19°254	4°682	43216	10	9°860	12°275	43290*	13	21°136	20°991				
43073	35	7°197	25°900	43143*	13	22°265	4°954	43217	10	10°654	12°191	43291	10	21°345	20°933				
43074	9	8°616	25°345	43144	10	23°111	4°891	43218*	24	12°855	12°038	43292	10	23°361	20°933				
43075	11	12°445	25°630	43145	11	24°003	4°347	43219	11	13°210	12°770	43293	10	23°804	20°508				
43076	8	15°327	25°422	43146	10	24°193	4°024	43220	10	21°764	12°936	43294*	28	25°013	20°386				
43077	11	18°190	25°171	43147	20	25°944	4°337	43221	11	22°870	12°858	43295	10	25°501	20°892				
43078	12	18°416	25°672	43148	24	0°263	5°989	43222*	45	2°595	13°645	43296*	19	6°471	21°459				
43079	10	21°118	25°834	43149	10	1°285	5°144	43223	10	6°837	13°912	43297	10	6°691	21°962				
43080	10	21°359	25°854	43150	11	6°158	5°751	43224	13	8°116	13°156	43298*	22	8°315	21°579				
43081	10	22°081	25°110	43151	10	7°343	5°279	43225	10	8°640	13°627	43299*	30	11°417	21°182				
				43152*	22	8°236	5°011	43226*	22	8°688	13°232	43300	10	17°276	21°586				
				43153	10	8°501	5°961	43227	10	9°737	13°943	43301	10	17°976	21°109				
				43154	13	9°639	5°675	43228	12	10°152	13°210	43302	11	21°538	21°392				
				43155	10	10°732	5°552	43229	11	11°000	13°714	43303	10	22°484	21°381				
				43156	10	12°211	5°657	43230	12	12°140	13°397	43304	9	24°596	21°228				
				43157	22	17°145	5°467	43231	22	16°249	13°329	43305	10	25°305	21°594				
				43158	14	20°078	5°405	43232	12	17°219	13°880	43306	10	3°660	22°329				
				43159	11	21°363	5°199	43233	11	23°469	13°697	43307	10	6°598	22°207				
				43160	11	22°025	5°047	43234	22	25°352	13°123	43308	10	9°095	22°003				
				43161	22	23°372	5°611	43235	13	25°913	13°922	43309	10	10°716	22°069				
				43162*	24	23°912	5°228	43236	14	7°065	14°966	43310	9	11°139	22°722				
				43163	22	0°249	6°029	43237	11	9°193	14°297	43311	10	11°310	22°479				
				43164	19	7°870	6°210	43238	10	10°461	14°016	43312	9	11°971	22°620				
				43165	10	11°237	6°477	43239	10	10°705	14°182	43313*	49	12°596	22°857				
				43166	10	16°541	6°097	43240	19	13°292	14°835	43314	19	17°525	22°465				
				43167*	21	19°096	6°467	43241	11	13°779	14°924	43315	10	20°249	22°804				
				43168	10	20°353	6°317	43242	10	14°146	14°509	43316*	31	20°866	22°243				
				43169	17	1°463	7°430	43243	11	17°015	14°161	43317*	32	0°747	23°911				
				43170	22	3°149	7°825	43244	12	18°175	14°880	43318	10	7°470	23°371				
				43171	10	7°370	7°823	43245	13	20°135	14°278	43319	10	9°169	23°335				
				43172	9	8°826	7°984	43246	10	3°910	15°749	43320	10	10°495	23°126				
				43173	11	15°574	7°711	43247	12	4°507	15°963	43321	10	12°384	23°029				
				43174	12	17°488	7°315	43248	19	9°598	15°060	43322	12	16°906	23°514				
				43175*	22	19°452	7°824	43249	11	9°853	15°948	43323	10	17°245	23°083				
				43176	21	23°277	7°861	43250	10	11°747	15°264	43324	10	18°439	23°426				
				43177	9	23°811	7°429	43251	13	16°226	15°406	43325*	45	0°251	24°029				
				43178	10	24°113	7°528	43252	12	17°238	15°030	43326	18	2°346	24°439				
				43179	10	4°856	8°923	43253	10	6°524	16°793	43327	11	5°104	24°846				
				43180	12	8°650	8°597	43254*	43	11°496	16°345	43328*	17	6°775	24°519				
				43181	10	11°033	8°232	43255	14	12°833	16°306	43329	11	11°323	24°039				
				43182	13	24°280	8°962	43256	12	14°698	16°147	43330	10	16°559	24°618				
				43183	10	25°735	8°456	43257	21	15°392	16°299	43331	12	19°567	24°553				
				43184	10	9°266	9°714	43258	12	16°946	16°981	43332	22	20°066	24°456				
				43185	13	12°462	9°585	43259*	43	20°662	16°414	43333	9	20°254	24°483				
				43186*	33	18°395	9°894	43260	10	23°661	16°297	43334	22	2°457	25°632				
				43187	11	25°476	9°479	43261	11	2°492	17°892	43335	10	7°374	25°014				
				43188*	21	25°482	9°488	43262	10	5°850	17°800	43336*	22	12°185	25°386				
				43189*	22	0°464	10°829	43263	10	15°161	17°749	43337	10	15°086	25°018				
				43190	19	0°849	10°270	43264*	32	15°404	17°732	43338	10	17°151	25°910				

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43448	22	0°515	3°214	43522	10	23°304	10°698	43596	10	12°902	17°704	43670	11	15°036	24°667	43730	11	11°571	2°132
43449	20	1°131	3°579	43523	10	1°171	11°159	43597	10	13°097	17°618	43671	10	18°218	24°140	43731	10	14°140	2°383
43450	10	4°244	3°825	43524	10	4°382	11°515	43598	12	15°135	17°374	43672	12	19°049	24°481	43732	10	16°566	2°187
43451	9	7°280	3°350	43525	11	7°168	11°208	43599	10	18°756	17°811	43673	11	24°253	24°281	43733	10	16°730	2°238
43452	11	12°220	3°207	43526	13	9°556	11°404	43600	11	20°284	17°045	43674	15	24°632	24°135	43734	12	23°464	2°166
43453	18	12°440	3°118	43527	11	11°198	11°165	43601	15	21°533	17°935	43675	32	0°599	25°030	43735	10	23°570	2°839
43454	9	16°962	3°167	43528	10	11°567	11°588	43602	10	23°187	17°526	43676	12	2°578	25°993	43736	19	24°861	2°342
43455	20	19°723	3°102	43529*	31	17°798	11°570	43603*	42	2°248	18°390	43677*	18	4°335	25°027	43737	22	0°805	3°100
43456	10	22°046	3°597	43530	10	21°521	11°186	43604	10	2°877	18°698	43678	10	8°417	25°003	43738	13	2°274	3°986
43457	9	23°256	3°164	43531	12	23°668	11°732	43605	9	4°058	18°865	43679	10	9°314	25°476	43739*	42	7°411	3°638
43458	10	25°338	3°963	43532	22	1°654	12°932	43606	14	6°783	18°374	43680	11	11°866	25°334	43740	22	14°919	3°087
43459	23	0°134	4°179	43533	11	4°202	12°734	43607	10	8°997	18°146	43681	9	12°806	25°226	43741	10	16°041	3°795
43460*	22	2°069	4°132	43534	22	9°811	12°199	43608	22	18°228	18°229	43682*	31	13°448	25°093	43742	11	19°770	3°092
43461	22	7°125	4°005	43535	14	12°070	12°266	43609	9	19°789	18°706	43683	10	13°593	25°827	43743	10	20°089	3°689
43462	19	12°838	4°051	43536*	22	13°413	12°708	43610	11	20°623	18°202	43684	9	15°997	25°043	43744	11	21°318	3°491
43463*	62	13°350	4°696	43537	10	16°462	12°099	43611	22	24°188	18°101	43685	16	17°946	25°286	43745	17	1°206	4°348
43464	13	15°086	4°366	43538	21	16°882	12°721	43612	11	24°522	18°301	43686	10	20°030	25°472	43746	15	1°539	4°731
43465	10	17°074	4°022	43539	12	17°178	12°307	43613	9	2°680	19°170	43687	8	21°516	25°937	43747	22	2°135	4°881
43466	12	20°104	4°303	43540*	22	18°348	12°259	43614	10	6°125	19°433	43688	29	21°660	25°568	43748*	22	2°501	4°141
43467	9	20°378	4°176	43541*	36	19°158	12°711	43615	10	8°192	19°541	43689	10	21°928	25°012	43749	12	3°401	4°917
43468	18	23°176	4°731	43542	19	22°129	12°389	43616	10	15°545	19°600	43690	22	23°991	25°887	43750*	41	6°878	4°082
43469*	22	23°744	4°288	43543	9	22°998	12°269	43617	11	19°258	19°479	43691	10	24°785	25°510	43751	10	9°546	4°050
43470	11	25°662	4°348	43544	12	2°229	13°718	43618	10	22°389	19°720					43752	13	9°705	4°567
43471*	41	0°057	5°059	43545	9	6°422	13°053	43619	10	22°730	19°462					43753	11	11°997	4°054
43472	10	2°482	5°275	43546	10	6°696	13°473	43620	11	25°886	19°569					43754	10	12°956	4°169
43473	10	3°600	5°896	43547	10	8°173	13°819	43621	12	0°250	20°344					43755	16	13°955	4°565
43474	10	6°328	5°855	43548	12	12°330	13°154	43622*	38	1°456	20°196					43756*	32	15°506	4°413
43475	10	14°209	5°873	43549	11	15°429	13°406	43623	11	1°957	20°697					43757	11	16°483	4°260
43476	11	16°870	5°253	43550	15	17°636	13°110	43624	21	12°496	20°938					43758*	23	17°834	4°488
43477	21	21°510	5°616	43551	12	17°859	13°691	43625	10	14°789	20°261					43759	11	18°051	4°264
43478	10	21°671	5°864	43552	22	18°485	13°926	43626	13	15°574	20°373					43760*	22	18°098	4°727
43479	13	23°866	5°967	43553	8	4°422	14°775	43627	14	18°881	20°813					43761	10	19°516	4°780
43480	9	24°859	5°034	43554	10	6°014	14°425	43628	11	19°570	20°358					43762	11	21°114	4°339
43481	10	2°260	6°982	43555	13	9°382	14°663	43629	10	20°019	20°527					43763	10	23°937	4°385
43482	10	4°804	6°509	43556	15	11°198	14°427	43630	10	20°530	20°709					43764	13	24°402	4°486
43483	10	7°256	6°883	43557	9	11°703	14°206	43631	11	24°200	20°321					43765	12	2°886	5°485
43484	15	8°280	6°969	43558	10	17°051	14°649	43632	19	8°526	21°271					43766	10	7°926	5°129
43485*	42	9°976	6°163	43559	10	20°706	14°835	43633	20	9°323	21°884					43767	12	9°076	5°451
43486	15	13°408	6°420	43560	13	23°093	14°808	43634	20	11°204	21°421					43768	11	9°461	5°754
43487	12	19°250	6°297	43561	21	23°950	14°148	43635	10	11°452	21°895					43769*	23	11°513	5°033
43488	10	23°681	6°194	43562	11	23°960	14°664	43636	10	11°922	21°143					43770*	32	11°866	5°029
43489	12	0°303	7°358	43563	10	2°057	15°616	43637	13	15°811	21°308					43771	10	12°730	5°333
43490	12	7°306	7°232	43564	19	4°694	15°792	43638	10	17°149	21°134					43772	11	12°765	5°232
43491*	20	9°550	7°313	43565	10	5°045	15°568	43639	20	25°630	21°648					43773	12	13°401	5°900
43492	11	10°600	7°545	43566	10	5°277	15°570	43640	9	5°865	22°231					43774	13	14°701	5°923
43493	11	12°956	7°486	43567	11	5°960	15°553	43641	10	8°685	22°659					43775	10	17°435	5°711
43494	10	13°564	7°087	43568	10	7°311	15°679	43642	18	9°174	22°458					43776	12	20°458	5°570
43495	13	16°498	7°419	43569	11	8°001	15°344	43643	10	9°493	22°525					43777	10	20°518	5°825
43496	13	16°788	7°829	43570	11	8°490	15°535	43644	16	10°622	22°696					43778	10	23°563	5°334
43497	10	25°048	7°326	43571	20	11°701	15°027	43645	9	13°910	22°191					43779	10	2°769	6°780
43498	22	0°502	8°788	43572	8	13°136	15°423	43646*	21	15°410	22°474					43780	12	3°070	6°050
43499	9	1°943	8°253	43573	11	17°516	15°443	43647*	21	16°597	22°667					43781	10	3°583	6°889
43500	9	2°931	8°880	43574	11	17°537	15°075	43648	9	17°798	22°446					43782	12	9°339	6°650
43501	10	3°020	8°433	43575	10	21°145	15°353	43649	9	19°659	22°103					43783	9	10°019	6°960
43502*	17	7°408	8°439	43576	22	21°636	15°323	43650	10	21°053	22°000					43784	10	10°346	6°499
43503	9	8°467	8°270	43577	21	23°019	15°275	43651	15	21°130	22°398					43785	11	14°964	6°502
43504	23	15°372	8°441	43578*	37	23°041	15°288	43652*	29	23°167	22°353					43786	15	16°237	6°934
43505	17	23°982	8°501	43579	10	23°486	15°804	43653	9	24°095	22°599					43787	17	16°297	6°818
43506*	23	1°711	9°290	43580	8	24°837	15°363	43654	10	4°666	23°946					43788	18	16°374	6°977
43507	12	10°098	9°405	43581*	33	25°010	15°240	43655	9	11°209	23°062					43789*	19	17°770	6°095
43508	10	16°785	9°758	43582	10	4°547	16°596	43656*	25	12°654	23°647					43790	13	18°605	6°130
43509*	18	22°936	9°584	43583*	23	6°626	16°725	43657	11	13°759	23°855					43791	10	19°520	6°478
43510	9	24°616	9°392	43584	10	6°846	16°080	43658	10	14°634	23°627					43792	11	19°949	6°648
43511	10	1°254	10°111	43585*	15	7°891	16°899	43659	19	16°686	23°504					43793*	12	4°934	7°882
43512	13	1°293	10°063	43586	17	8°018	16°892	43660	10	17°203	23°876					43794	18	9°409	7°309
43513	11	2°726	10°228	43587	11	11°063	16°400	43661	10	18°689	23°031					43795	12	10°978	7°603
43514	9	3°486	10°629	43588	7	13°695	16°102	43662	10	20°761	23°651					43796	11	18°115	7°570
43515	10	4°798	10°278	43589	11	16°214	16°116	43663	10	23°114	23°264								

43804	11	7°337	8°740	43878	13	5°546	16°547	43952	14	25°455	22°721	44014	9	23°510	0°603	44088	32	0°264	8°080
43805	12	7°519	8°523	43879	22	10°680	16°851	43953	19	2°651	23°787	44015	10	24°052	0°649	44089	11	7°111	8°160
43806	11	16°199	8°748	43880	10	16°741	16°620	43954*	22	3°580	23°469	44016	11	5°667	1°923	44090	8	9°057	8°389
43807	12	17°243	8°301	43881	23	17°564	16°750	43955	10	4°445	23°540	44017*	15	5°972	1°798	44091	19	12°558	8°805
43808	10	17°854	8°495	43882*	13	23°770	16°084	43956*	32	4°830	23°744	44018	10	6°094	1°437	44092	16	13°018	8°652
43809	10	19°067	8°487	43883	22	2°152	17°332	43957	21	7°361	23°721	44019	11	7°269	1°048	44093	14	15°819	8°290
43810	15	20°961	8°530	43884*	38	8°673	17°243	43958	10	9°692	23°249	44020*	22	7°789	1°331	44094	9	21°372	8°815
43811	11	23°549	8°588	43885	10	9°964	17°185	43959	9	14°823	23°112	44021	11	8°442	1°863	44095	12	22°296	8°847
43812	17	23°569	8°182	43886	10	9°969	17°377	43960	10	17°088	23°692	44022	11	8°966	1°381	44096	10	23°782	8°751
43813	21	24°058	8°318	43887	10	16°731	17°228	43961	10	18°949	23°162	44023	10	10°066	1°489	44097	9	24°821	8°033
43814	10	4°593	9°776	43888*	22	20°220	17°472	43962	12	19°725	23°800	44024	8	10°128	1°475	44098	11	4°693	9°192
43815	11	6°265	9°039	43889	10	23°116	17°558	43963	10	20°046	23°432	44025	9	11°132	1°796	44099*	21	6°527	9°086
43816	10	7°690	9°308	43890	10	23°786	17°131	43964	10	21°250	23°768	44026	9	13°920	1°752	44100	9	19°228	9°838
43817*	33	9°962	9°842	43891	29	0°332	18°511	43965	11	21°883	23°271	44027	10	15°832	1°046	44101	10	20°881	9°459
43818	10	11°428	9°267	43892	23	0°669	18°703	43966*	32	21°954	23°109	44028	12	18°474	1°395	44102	13	21°115	9°463
43819	28	12°845	9°846	43893	11	2°853	18°300	43967	10	22°658	23°048	44029	8	18°920	1°150	44103	9	23°980	9°957
43820	22	14°530	9°381	43894	13	2°925	18°581	43968*	27	23°428	23°808	44030	9	20°768	1°448	44104	10	24°543	9°693
43821	11	16°175	9°150	43895	10	3°840	18°504	43969*	21	23°435	23°824	44031	10	21°271	1°183	44105	10	0°658	10°486
43822	12	22°180	9°153	43896	22	6°855	18°771	43970	10	23°521	23°902	44032	10	22°836	1°455	44106	10	2°280	10°990
43823	13	2°255	10°947	43897	12	13°563	18°038	43971	12	25°834	23°878	44033	23	0°960	2°089	44107	10	3°303	10°729
43824	10	4°996	10°857	43898	10	13°868	18°790	43972	22	0°515	24°688	44034	10	7°113	2°993	44108*	22	10°738	10°200
43825	10	5°141	10°028	43899	10	15°913	18°932	43973	33	0°892	24°534	44035	8	7°380	2°269	44109	13	15°872	10°501
43826	11	8°245	10°100	43900	11	18°483	18°255	43974	17	2°475	24°351	44036	11	8°341	2°984	44110	12	16°218	10°922
43827	14	13°986	10°208	43901	12	19°241	18°641	43975*	43	4°543	24°913	44037	10	19°816	2°367	44111	10	21°095	10°315
43828	17	15°311	10°864	43902	12	21°546	18°127	43976	11	13°170	24°219	44038*	46	4°897	3°461	44112*	22	24°286	10°876
43829	10	16°697	10°673	43903	9	22°245	18°752	43977	13	13°292	24°706	44039	9	5°749	3°688	44113*	27	24°505	10°567
43830	10	24°410	10°731	43904	12	23°840	18°600	43978	10	17°482	24°108	44040	8	21°363	3°204	44114	9	0°419	11°356
43831	14	2°228	11°708	43905	10	23°988	18°956	43979	15	3°520	25°374	44041	11	22°128	3°406	44115	8	2°308	11°609
43832	10	6°547	11°437	43906	12	2°054	19°943	43980	22	5°578	25°829	44042	9	23°106	3°417	44116	10	2°619	11°468
43833	12	10°203	11°251	43907	19	7°631	19°209	43981	10	9°980	25°791	44043	14	0°069	4°149	44117	10	6°299	11°705
43834	11	11°138	11°136	43908	12	9°518	19°670	43982	9	10°045	25°092	44044	19	0°540	4°242	44118	15	8°462	11°097
43835	10	19°064	11°151	43909	9	10°335	19°453	43983	32	13°848	25°106	44045	10	5°688	4°074	44119	10	8°649	11°869
43836	10	21°630	11°967	43910	10	12°389	19°395	43984	10	14°774	25°819	44046	9	8°848	4°346	44120	11	20°390	11°586
43837	12	21°921	11°588	43911	21	14°070	19°568	43985	13	15°773	25°774	44047	10	14°239	4°343	44121	11	20°959	11°975
43838	22	23°073	11°801	43912	20	14°641	19°390	43986	22	18°423	25°783	44048	11	14°489	4°032	44122	10	22°310	11°732
43839	10	24°155	11°594	43913	10	14°697	19°736	43987	10	19°624	25°829	44049	10	15°990	4°656	44123	10	23°092	11°996
43840	14	4°872	12°835	43914	21	18°206	19°457	43988	10	20°670	25°706	44050	10	17°817	4°436	44124*	40	23°170	11°837
43841	10	11°159	12°474	43915	12	23°036	19°832	43989	30	25°030	25°676	44051*	22	20°054	4°020	44125	9	23°581	11°474
43842	15	12°808	12°122	43916	14	0°388	20°732					44052	20	22°883	4°181	44126	10	25°331	11°863
43843	21	17°420	12°789	43917	12	4°375	20°833					44053	10	25°977	4°912	44127	14	3°376	12°454
43844	12	18°018	12°756	43918	10	8°853	20°309					44054	10	2°702	5°515	44128	10	5°853	12°307
43845	21	20°709	12°714	43919	13	12°065	20°333					44055	10	4°933	5°868	44129	11	6°145	12°030
43846	10	22°225	12°011	43920	12	13°776	20°963					44056	20	5°767	5°559	44130*	24	7°875	12°774
43847	10	23°573	12°949	43921	22	13°893	20°960					44057	10	11°576	5°033	44131	11	8°176	12°668
43848	13	23°670	12°693	43922	12	17°332	20°626					44058	10	12°449	5°660	44132	13	9°049	12°353
43849	22	2°765	13°672	43923	10	18°401	20°508					44059*	42	14°032	5°058	44133	10	9°341	12°515
43850	10	7°271	13°695	43924	9	24°591	20°666					44060	10	14°300	5°162	44134	22	11°440	12°793
43851	10	10°059	13°026	43925	12	3°975	21°194					44061	21	14°320	5°208	44135	13	18°781	12°231
43852	11	11°814	13°018	43926	13	6°847	21°619					44062	10	14°648	5°091	44136	12	19°831	12°100
43853	13	15°142	13°092	43927	10	10°623	21°459					44063	10	17°157	5°867	44137	10	20°369	12°698
43854*	35	21°318	13°379	43928	17	13°542	21°832					44064	8	18°915	5°847	44138	10	24°438	12°127
43855*	35	25°411	13°865	43929	10	14°286	21°095					44065	11	20°276	5°642	44139	12	25°175	12°058
43856	22	0°015	14°560	43930	9	18°249	21°951					44066	10	23°714	5°602	44140	10	25°249	12°784
43857	13	0°059	14°427	43931	18	18°325	21°592					44067	10	25°159	5°556	44141	9	25°512	12°445
43858	10	2°596	14°148	43932*	25	20°370	21°383					44068	9	2°896	6°268	44142*	27	0°595	13°821
43859*	33	6°424	14°949	43933	10	20°666	21°083					44069	9	3°539	6°291	44143*	37	1°716	13°605
43860*	29	8°690	14°851	43934	10	21°214	21°750					44070	10	4°456	6°787	44144*	53	14°168	13°959
43861	16	13°644	14°960	43935	9	22°421	21°856					44071	10	5°171	6°311	44145	12	22°460	13°606
43862	14	16°100	14°506	43936	10	23°259	21°700					44072	13	15°108	6°678	44146	10	23°547	13°890
43863	12	16°661	14°269	43937	12	23°748	21°548					44073	10	17°972	6°388	44147*	21	25°372	13°915
43864	10	17°784	14°853	43938	13	24°606	21°556					44074	13	18°727	6°857	44148	20	0°645	14°585
43865	22	19°403	14°694	43939	32	1°842	22°023					44075	10	18°731	6°878	44149	8	0°692	14°672
43866*	28	19°427	14°218	43940	11	3°587	22°831					44076	9	19°129	6°457	44150	21	2°419	14°901
43867	10	20°872	14°740	43941	15	4°648	22°063					44077	11	22°180	6°354	44151	10	5°055	14°662
43868*	32	24°284	14°060	43942	10	5°077	22°617					44078	22	1°009	7°191	44152	10	5°349	14°232
43869	14	24°323	14°827	43943	11	6°292	22°783												

44162	8	6.222	15.736	44236	10	6.193	21.344	R. A. 17^h 24^m Plate 1827; 1901 July 19. Provisional Constants. A B C -00043 +00589 -2187 D E F -00581 -00035 -3653 Mag. = 15.3 - 1.25√d	44457	13	1.072	5.830	44531	8	6.495	14.885
44163	9	6.227	15.680	44237	8	6.780	21.300		44458	9	1.875	5.170	44532	12	10.331	14.624
44164	10	7.928	15.830	44238	10	6.849	21.471		44459	12	5.705	5.520	44533	13	11.328	14.440
44165	9	8.186	15.749	44239	10	8.014	21.368		44460*	20	6.637	5.456	44534	20	12.271	14.144
44166	11	9.563	15.704	44240	10	8.115	21.210		44461*	37	6.868	5.316	44535	10	24.841	14.258
44167	12	17.515	15.706	44241*	20	8.674	21.879		44462	20	11.149	5.319	44536	13	2.285	15.816
44168	11	18.646	15.743	44242	10	8.822	21.235		44463	10	11.310	5.071	44537	10	3.099	15.930
44169	15	21.821	15.952	44243	9	9.263	21.237		44464	20	16.910	5.631	44538	13	3.319	15.401
44170	10	22.338	15.589	44244	8	9.390	21.238		44465	16	19.030	5.320	44539	11	4.275	15.776
44171	13	23.018	15.052	44245	10	17.439	21.541		44466	9	19.552	5.982	44540	9	5.942	15.602
44172	10	4.362	16.322	44246	10	17.640	21.690	44467	8	21.080	5.158	44541*	22	6.011	15.524	
44173	10	5.628	16.862	44247	9	19.779	21.125	44468	13	21.786	5.704	44542	13	14.786	15.395	
44174	10	6.580	16.945	44248	9	20.212	21.478	44469*	20	23.186	5.790	44543	12	14.980	15.319	
44175	12	7.109	16.053	44249	11	20.682	21.894	44470	10	23.632	5.161	44544	12	15.071	15.755	
44176	8	7.530	16.319	44250	19	1.917	22.457	44471	12	25.667	5.662	44545*	23	18.975	15.231	
44177	11	9.995	16.716	44251*	39	10.102	22.515	44472	12	5.246	6.842	44546*	30	21.456	15.070	
44178	10	10.463	16.228	44252*	22	10.118	22.692	44473	10	8.725	6.218	44547	9	21.650	15.301	
44179	13	10.477	16.125	44253	11	11.517	22.180	44474	11	9.033	6.922	44548	11	22.100	15.684	
44180*	33	12.093	16.692	44254	10	12.371	22.093	44475*	29	15.690	6.682	44549	20	2.090	16.331	
44181	15	22.927	16.670	44255	9	12.728	22.719	44476	12	16.058	6.451	44550	21	2.438	16.200	
44182	21	25.982	16.073	44256	10	12.919	22.645	44403	9	11.370	0.447	44477*	30	17.650	6.900	
44183	10	2.910	17.660	44257*	22	13.679	22.538	44404	10	12.658	0.313	44478	18	21.082	6.759	
44184	10	6.489	17.776	44258	8	18.625	22.034	44405	11	13.891	0.020	44479*	26	23.017	6.209	
44185	9	7.656	17.378	44259*	51	19.880	22.663	44406	12	14.122	0.204	44480	9	24.495	6.847	
44186	12	16.350	17.668	44260	11	2.316	23.609	44407	11	16.014	0.385	44481*	13	25.750	6.323	
44187	22	18.201	17.549	44261*	17	3.561	23.738	44408	12	16.790	0.401	44482	10	6.685	7.228	
44188	10	23.008	17.295	44262	10	3.860	23.774	44409	9	17.025	0.599	44483	12	12.390	7.441	
44189	10	23.917	17.466	44263	10	5.890	23.209	44410	10	17.745	0.024	44484	12	12.595	7.100	
44190	13	0.227	18.366	44264	8	11.336	23.919	44411	9	18.061	0.745	44485	13	16.753	7.156	
44191	8	1.514	18.747	44265	8	11.737	23.405	44412	10	18.150	0.807	44486*	37	17.145	7.641	
44192	11	5.548	18.582	44266*	55	12.753	23.542	44413	10	24.086	0.768	44487	10	21.814	7.521	
44193	10	6.110	18.472	44267	12	13.842	23.681	44414	12	4.749	1.360	44488	9	24.063	7.704	
44194*	11	6.198	18.856	44268	7	15.597	23.231	44415	10	5.100	1.193	44489	10	25.021	7.106	
44195	8	6.377	18.543	44269	10	18.100	23.643	44416	9	10.516	1.636	44490	12	0.844	8.095	
44196*	27	6.661	18.673	44270	12	20.396	23.707	44417*	13	11.092	1.134	44491	19	9.845	8.201	
44197	9	7.560	18.909	44271	11	22.768	23.552	44418*	30	11.691	1.751	44492	11	16.672	8.848	
44198*	25	12.819	18.589	44272	22	23.476	23.321	44419	10	14.615	1.196	44493	7	21.340	8.227	
44199	11	16.933	18.641	44273	13	23.590	23.820	44420	12	16.838	1.611	44494	8	4.035	9.002	
44200	11	17.280	18.453	44274	20	3.528	24.824	44421	9	19.671	1.188	44495*	23	5.900	9.361	
44201	9	17.451	18.154	44275	10	3.929	24.323	44422	10	20.751	1.917	44496	12	10.406	9.097	
44202	11	17.840	18.621	44276	13	4.500	24.776	44423	12	22.100	1.729	44497	19	12.406	9.089	
44203	10	18.930	18.482	44277	10	7.061	24.588	44424	10	7.197	2.918	44498*	32	13.065	9.565	
44204	10	19.877	18.148	44278	11	7.415	24.073	44425	9	7.693	2.690	44499	16	14.349	9.177	
44205	11	20.158	18.272	44279*	31	9.553	24.682	44426	12	7.705	2.298	44500	17	19.895	9.431	
44206	10	20.643	18.432	44280	13	9.572	24.680	44427	12	8.517	2.647	44501	9	20.611	9.260	
44207	10	20.808	18.398	44281*	39	10.471	24.589	44428	21	8.644	2.975	44502*	34	0.511	10.850	
44208	12	21.750	18.396	44282	17	12.655	24.053	44429	17	18.075	2.859	44503	12	2.950	10.774	
44209	11	2.790	19.194	44283	10	13.610	24.646	44430	10	18.152	2.956	44504	9	7.739	10.059	
44210	8	3.162	19.666	44284	8	13.829	24.723	44431	13	22.261	2.091	44505	20	8.211	10.571	
44211	10	4.445	19.886	44285	12	14.090	24.827	44432	12	2.895	3.223	44506	22	15.367	10.040	
44212	8	9.658	19.765	44286	10	19.987	24.500	44433	19	4.320	3.577	44507	14	15.895	10.709	
44213	10	10.090	19.784	44287	9	20.479	24.578	44434	11	7.673	3.350	44508*	26	0.295	11.164	
44214	10	12.198	19.332	44288	8	20.681	24.231	44435	10	12.332	3.299	44509	12	2.725	11.424	
44215*	36	15.749	19.220	44289	10	21.432	24.069	44436	20	12.560	3.170	44510	9	4.053	11.442	
44216	16	19.745	19.528	44290	8	22.409	24.417	44437	12	13.102	3.173	44511	10	5.555	11.256	
44217	10	22.664	19.370	44291	10	22.551	24.436	44438	20	17.623	3.489	44512	12	5.933	11.500	
44218	8	23.439	19.685	44292	9	22.857	24.737	44439	11	17.904	3.700	44513	8	23.634	11.408	
44219	11	24.472	19.684	44293	10	23.331	24.786	44440	10	18.557	3.191	44514	9	24.826	11.239	
44220	9	25.544	19.095	44294	10	24.412	24.100	44441	10	19.164	3.231	44515	10	0.471	12.414	
44221	13	3.780	20.992	44295	10	25.405	24.818	44442*	29	19.820	3.790	44516	12	1.208	12.331	
44222	8	5.348														

44605	9	5°036	21°637					44757	9	6°980	3°409	44831	16	0°700	7°236	44905	12	4°409	11°298
44606	8	8°600	21°719					44758	10	7°472	3°695	44832	18	1°232	7°488	44906	12	8°509	11°386
44607	10	9°906	21°610					44759	12	8°876	3°867	44833	13	2°455	7°804	44907	10	9°136	11°157
44608	11	12°988	21°941					44760	10	10°717	3°238	44834	10	3°847	7°890	44908	16	11°248	11°583
44609	9	13°651	21°760					44761	10	11°218	3°254	44835	14	5°515	7°566	44909	12	13°951	11°820
44610	12	13°901	21°106					44762	11	11°559	3°379	44836	11	6°660	7°727	44910	19	14°936	11°744
44611	12	15°306	21°715					44763	20	12°665	3°102	44837	17	6°853	7°951	44911	15	20°406	11°541
44612	21	21°340	21°436					44764	12	13°377	3°338	44838	10	7°034	7°547	44912	9	20°610	11°631
44613	9	23°260	21°205					44765	9	16°296	3°463	44839	12	8°145	7°065	44913	10	21°890	11°771
44614	10	3°581	22°698					44766	10	17°232	3°215	44840	11	8°910	7°626	44914	11	22°000	11°165
44615	9	6°790	22°078					44767	15	18°280	3°607	44841*	22	10°375	7°642	44915*	31	25°333	11°852
44616	18	7°358	22°043					44768	10	18°610	3°126	44842*	15	10°438	7°768	44916	10	25°423	11°462
44617*	20	9°059	22°055					44769	8	20°302	3°635	44843	13	16°305	7°560	44917	12	0°829	12°453
44618	10	9°415	22°292					44770	12	20°306	3°513	44844	12	17°745	7°966	44918	13	0°876	12°647
44619	12	11°024	22°360					44771	19	20°437	3°826	44845	10	20°871	7°389	44919	22	1°145	12°459
44620	10	11°140	22°081					44772	9	22°034	3°650	44846	10	20°971	7°674	44920	22	2°887	12°601
44621	11	13°395	22°342					44773	8	22°562	3°652	44847	8	23°419	7°600	44921	10	3°824	12°487
44622	12	14°546	22°041					44774	11	23°156	3°005	44848	11	24°295	7°088	44922	21	5°809	12°231
44623	11	16°193	22°351					44775	10	23°737	3°192	44849	9	25°080	7°772	44923	9	6°194	12°185
44624	10	22°899	22°920					44776	11	24°865	3°353	44850	19	0°286	8°100	44924	16	6°335	12°728
44625	9	23°029	22°071					44777	12	3°350	4°911	44851	13	2°621	8°070	44925	9	6°829	12°844
44626	10	24°168	22°481					44778	16	6°194	4°562	44852	12	3°406	8°330	44926	11	10°207	12°285
44627	9	25°714	22°586					44779	11	6°334	4°561	44853	16	7°422	8°080	44927	15	10°550	12°160
44628	11	3°209	23°941					44780	11	6°537	4°029	44854	16	7°579	8°221	44928	12	12°735	12°972
44629	11	7°314	23°855					44781	10	6°890	4°693	44855	11	8°083	8°781	44929*	24	13°625	12°226
44630	9	8°488	23°712					44782	10	9°662	4°409	44856	17	8°268	8°246	44930	12	15°066	12°067
44631*	21	9°662	23°513					44783	9	10°301	4°626	44857	8	10°636	8°510	44931	13	15°530	12°396
44632	20	10°784	23°779					44784	11	10°436	4°118	44858	12	10°851	8°526	44932	21	15°572	12°071
44633	8	10°784	23°106					44785	20	11°885	4°117	44859*	50	11°355	8°405	44933	8	19°191	12°161
44634	12	11°270	23°215					44786	11	13°553	4°556	44860	17	15°964	8°967	44934*	23	19°390	12°980
44635	9	13°489	23°886					44787	12	14°387	4°160	44861	13	16°824	8°586	44935	11	20°884	12°332
44636	10	14°280	23°624					44788	9	16°312	4°851	44862*	32	16°830	8°567	44936	9	21°375	12°969
44637*	14	15°280	23°795					44789	13	16°327	4°302	44863	12	18°604	8°747	44937	10	23°805	12°770
44638*	33	16°371	23°261					44790*	31	18°375	4°305	44864*	20	18°976	8°147	44938	22	24°995	12°035
44639	9	16°778	23°226					44791	9	21°280	4°614	44865	9	20°117	8°898	44939	10	25°370	12°314
44640*	18	23°480	23°827					44792	9	22°696	4°590	44866	13	22°709	8°564	44940	30	0°543	13°590
44641	10	24°599	23°931					44793	12	23°025	4°942	44867	10	23°846	8°354	44941	13	4°552	13°791
44642*	37	24°668	23°045					44794	11	23°214	4°749	44868	9	24°986	8°863	44942*	22	6°859	13°531
44643	14	25°825	23°036					44795	12	23°400	4°339	44869	12	4°680	9°333	44943	10	7°695	13°760
44644	12	2°411	24°041					44796	10	4°411	5°379	44870	8	7°619	9°900	44944	13	9°955	13°985
44645	19	2°477	24°869					44797	17	5°970	5°135	44871	11	8°729	9°553	44945	12	12°178	13°108
44646*	40	2°663	24°410					44798	10	7°551	5°628	44872	23	8°808	9°329	44946	12	13°509	13°126
44647*	30	3°129	24°597					44799	14	7°935	5°090	44873	11	11°260	9°807	44947	13	15°259	13°482
44648	11	5°821	24°915					44800	11	13°517	5°046	44874*	12	15°121	9°004	44948	13	16°708	13°620
44649	20	6°835	24°714					44801	8	14°151	5°477	44875	20	15°152	9°539	44949	10	17°149	13°649
44650	11	7°545	24°350					44802	10	14°400	5°752	44876	12	18°113	9°857	44950	8	20°151	13°740
44651	10	9°848	24°800					44803	8	14°721	5°731	44877	9	19°289	9°263	44951	14	25°435	13°921
44652	17	11°250	24°714					44804	9	15°509	5°797	44878	10	20°135	9°518	44952	12	25°870	13°100
44653	9	14°366	24°735					44805	17	19°978	5°373	44879	10	20°880	9°295	44953	11	1°171	14°641
44654	9	14°411	24°721					44806	9	21°035	5°182	44880	9	23°015	9°640	44954	10	2°479	14°654
44655	14	17°289	24°163					44807	8	22°562	5°930	44881	9	23°964	9°247	44955	12	5°361	14°042
44656	9	20°354	24°212					44808	12	23°105	5°051	44882	10	24°305	9°563	44956	9	7°490	14°727
44657	8	20°530	24°524					44809	20	1°857	6°034	44883*	22	25°001	9°222	44957	11	7°539	14°290
44658	13	3°219	25°776					44810*	19	1°949	6°695	44884*	18	3°966	10°544	44958	10	7°871	14°048
44659	12	6°665	25°605					44811	9	4°863	6°902	44885	14	5°920	10°334	44959	8	9°116	14°701
44660	11	7°085	25°419					44812	18	6°291	6°766	44886	10	7°308	10°009	44960	15	12°758	14°876
44661	24	11°281	25°327					44813	10	10°414	6°270	44887	9	8°698	10°637	44961	23	13°911	14°105
44662	22	16°016	25°905					44814	10	11°905	6°797	44888	11	11°190	10°072	44962	12	15°037	14°193
44663	12	19°022	25°790					44815	9	13°856	6°665	44889	12	12°088	10°223	44963	18	16°448	14°604
44664	13	19°028	25°710					44816	11	14°435	6°314	44890	17	13°046	10°385	44964	11	20°568	14°285
44665	16	23°424	25°857					44817	15	15°060	6°282	44891*	21	13°286	10°211	44965	10	23°300	14°395
								44818	17	15°443	6°466	44892	10	13°438	10°641	44966	10	23°351	14°724
								44819	12	16°626	6°692	44893	12	15°446	10°140	44967	9	23°851	14°475
								44820	15	17°342	6°837	44894	12	17°680	10°318	44968	10	24°910	14°970
								44821*	23	20°004	6°057	44895	14	19°095	10°716	44969	11	7°311	15°699
								44822	9	20°121	6°271	44896	12	19°757	10°687	44970	9	7°514	15°655
								44823	10	20°338	6°300	44897	19	20°075	10°327	44971*	52	10°885	15°800
								44824	9	22°531	6°277	44898	10	20°504	10°150	44972	17	11°770	15°170
								44825	10	22°632	6°080	44899	9	24°070	10°005	44973	21	12°096	15°375
								44826*	19	22°666	6°015	44900	8	24°106	10°276	44974	15	16°070	15°542
								44827	12	23°373	6°274	44901	9	25°060	10°642	44975	12	17°615	15°779
								44828	12	23°887	6°045	44902	9	25°85					

44979	8	23°740	15°534	45053	8	17°157	19°130	45127	10	10°853	23°604	45205	9	18°556	0°165	45279	12	12°713	7°170
44980	9	25°234	15°379	45054	10	18°390	19°655	45128	21	14°637	23°861	45206	12	19°065	0°690	45280	10	15°961	7°601
44981*	37	25°318	15°998	45055	19	20°676	19°769	45129	11	14°984	23°611	45207	10	19°676	0°642	45281	10	19°588	7°653
44982	32	0°682	16°894	45056	9	20°933	19°326	45130	9	15°329	23°472	45208	22	23°831	0°545	45282	19	20°522	7°745
44983	22	2°443	16°631	45057	10	25°616	19°780	45131	10	15°735	23°040	45209*	38	1°250	1°320	45283	9	22°767	7°320
44984	19	2°904	16°909	45078	12	25°626	19°768	45132	15	15°788	23°323	45210*	22	1°556	1°150	45284	12	23°279	7°489
44985	12	5°189	16°059	45079	20	1°544	20°298	45133	11	15°950	23°409	45211*	42	6°131	1°550	45285	10	23°571	7°040
44986*	40	6°694	16°163	45080	11	2°963	20°648	45134	10	17°090	23°626	45212	10	9°659	1°031	45286	8	3°954	8°974
44987	13	7°791	16°049	45081	12	3°190	20°563	45135	12	19°815	23°399	45213*	35	11°003	1°488	45287*	22	4°182	8°516
44988	9	8°531	16°745	45082	10	6°297	20°020	45136	11	23°002	23°285	45214	22	11°762	1°510	45288	10	5°799	8°044
44989	13	14°417	16°797	45083	8	6°329	20°727	45137	10	23°502	23°462	45215	11	12°843	1°766	45289	21	9°870	8°505
44990	12	15°479	16°807	45084	8	7°350	20°979	45138	9	24°586	23°871	45216	13	13°349	1°730	45290	10	18°191	8°367
44991	10	15°536	16°775	45085	9	9°926	20°673	45139	18	24°940	23°883	45217	12	13°777	1°082	45291	19	19°323	8°754
44992*	20	18°640	16°265	45086	10	14°500	20°870	45140	16	1°083	24°321	45218	10	13°800	1°766	45292	10	21°748	8°112
44993	9	20°891	16°364	45087	12	15°526	20°339	45141	22	3°961	24°975	45219	13	14°062	1°580	45293	11	23°016	8°699
44994	9	23°045	16°960	45088	7	16°442	20°710	45142*	42	5°358	24°592	45220*	42	19°231	1°913	45294	10	0°361	9°514
44995	7	24°950	16°971	45089	10	17°205	20°118	45143	10	6°960	24°878	45221	12	19°561	1°988	45295*	32	1°064	9°862
44996	10	2°504	17°729	45090	20	18°611	20°804	45144	14	8°427	24°192	45222	9	21°453	1°752	45296*	62	2°480	9°073
44997	9	6°555	17°687	45091	12	18°967	20°035	45145	9	9°156	24°327	45223	12	24°037	1°867	45297*	21	3°147	9°770
44998	12	6°773	17°081	45092	9	19°045	20°261	45146	13	9°663	24°049	45224	17	24°128	1°282	45298	8	4°899	9°125
44999	10	8°131	17°692	45093	10	20°056	20°392	45147	8	11°263	24°901	45225	11	24°887	1°040	45299*	22	5°286	9°809
45000	22	8°225	17°094	45094	15	1°039	21°068	45148	7	14°342	24°196	45226	9	2°240	2°710	45300	10	6°564	9°281
45001	10	9°013	17°991	45095	12	3°384	21°036	45149	18	14°804	24°786	45227	9	9°025	2°601	45301	13	8°799	9°402
45002	10	9°811	17°156	45096	11	5°659	21°875	45150	11	14°831	24°691	45228	10	13°960	2°141	45302	15	10°513	9°113
45003	21	10°366	17°135	45097	9	7°245	21°129	45151	9	16°600	24°891	45229	9	14°862	2°404	45303	21	14°270	9°991
45004	10	11°004	17°300	45098	12	7°342	21°654	45152*	30	17°959	24°795	45230*	22	16°986	2°713	45304	14	15°551	9°013
45005	9	13°095	17°747	45099	8	7°814	21°589	45153	9	18°577	24°879	45231	13	22°636	2°018	45305	19	21°262	9°372
45006	12	15°716	17°488	45080	11	8°605	21°739	45154	10	22°106	24°579	45232	10	23°167	2°873	45306	19	23°497	9°397
45007	10	17°184	17°214	45081	14	8°770	21°135	45155	19	22°230	24°718	45233	9	23°725	2°614	45307	8	1°132	10°584
45008	11	17°605	17°291	45082	16	8°798	21°876	45156	13	24°324	24°583	45234	10	2°289	3°000	45308*	22	3°406	10°148
45009	12	18°230	17°421	45083	8	10°464	21°985	45157	11	25°355	24°140	45235	11	2°970	3°263	45309*	92	14°369	10°032
45010	10	19°067	17°085	45084	24	11°027	21°104	45158	21	25°386	24°827	45236	21	4°586	3°685	45310*	17	15°272	10°416
45011	10	19°250	17°439	45085	13	11°905	21°007	45159	12	25°424	24°572	45237	10	9°247	3°679	45311*	25	17°487	10°707
45012	10	20°905	17°226	45086	8	11°914	21°703	45160	10	7°458	25°155	45238	8	13°468	3°148	45312	10	19°916	10°911
45013	10	21°257	17°985	45087	10	12°262	21°482	45161	10	8°329	25°798	45239	10	13°869	3°855	45313	9	24°541	10°505
45014	10	22°055	17°678	45088	9	15°292	21°813	45162	11	9°309	25°844	45240	11	13°887	3°347	45314	8	25°142	10°104
45015	9	22°726	17°670	45089	19	15°581	21°162	45163	9	11°418	25°986	45241	10	14°970	3°739	45315	32	1°093	11°976
45016	10	23°876	17°631	45090	22	15°798	21°855	45164	10	13°392	25°807	45242	11	15°383	3°260	45316*	42	1°428	11°787
45017	8	24°051	17°350	45091	9	17°562	21°867	45165	9	15°178	25°026	45243	15	15°681	3°380	45317	10	1°511	11°395
45018	9	24°469	17°566	45092	6	17°750	21°818	45166	10	17°866	25°575	45244	13	2°161	4°165	45318	12	5°479	11°680
45019	19	24°901	17°477	45093	14	18°380	21°755	45167	9	19°994	25°939	45245	11	3°416	4°681	45319	11	7°310	11°832
45020	10	24°916	17°632	45094	10	19°132	21°832	45168	8	20°197	25°201	45246	12	4°547	4°280	45320	12	9°611	11°303
45021	15	1°972	18°780	45095	9	19°325	21°205	45169	13	20°454	25°816	45247	10	5°402	4°087	45321	12	10°447	11°276
45022	8	5°913	18°793	45096	20	21°962	21°624	45170	12	20°495	25°746	45248*	22	14°304	4°089	45322*	32	11°219	11°068
45023	11	5°955	18°294	45097	10	23°041	21°537	45171	10	20°531	25°845	45249	9	14°699	4°554	45323	19	11°776	11°668
45024	11	7°644	18°896	45098	8	23°193	21°441	45172	9	20°752	25°941	45250	15	15°061	4°374	45324	21	15°046	11°170
45025	10	8°830	18°672	45099	9	24°698	21°790	45173	10	24°742	25°392	45251	10	16°150	4°073	45325	10	17°754	11°043
45026	8	8°851	18°008	45100	12	25°595	21°537	45174	21	25°711	25°515	45252	15	21°921	4°331	45326	9	25°620	11°230
45027	12	9°017	18°294	45101	18	0°632	22°875					45253	13	25°390	4°480	45327	10	25°662	11°170
45028	19	9°771	18°975	45102	18	2°177	22°959					45254	22	2°154	5°856	45328	10	1°471	12°245
45029	9	9°923	18°716	45103*	53	2°897	22°895					45255	12	3°650	5°893	45329	8	2°480	12°863
45030	8	11°130	18°820	45104*	40	3°134	22°194					45256	9	4°626	5°206	45330	22	3°632	12°522
45031	10	12°142	18°032	45105	12	3°400	22°778					45257	19	6°020	5°825	45331	10	7°299	12°587
45032	14	13°335	18°756	45106*	31	4°052	22°964					45258	23	6°778	5°171	45332	12	7°511	12°021
45033	10	13°370	18°947	45107	9	5°474	22°024					45259	18	8°076	5°874	45333	20	9°692	12°545
45034	11	16°070	18°742	45108	15	6°627	22°646					45260*	22	10°665	5°185	45334	22	11°012	12°647
45035	10	16°911	18°298	45109	12	8°059	22°176					45261	10	12°947	5°310	45335	15	14°791	12°922
45036	7	18°052	18°569	45110	10	9°676	22°635					45262	12	18°426	5°792	45336*	38	14°955	12°929
45037	10	20°316	18°925	45111	11	13°272	22°386					45263	9	18°949	5°691	45337	15	19°292	12°246
45038	12	20°686	18°722	45112	9	13°344	22°417					45264	11	23°253	5°041	45338	15	20°922	12°552
45039	10	23°386	18°278	45113	10	14°065	22°344					45265	15	0°747	6°044	45339	9	24°145	12°474
45040	21	0°424	19°163	45114	9	15°452	22°195					45266	8	6°218	6°464	45340	12	24°331	12°214
45041*	19	1°750	19°216	45115	8	16°195	22°285					45267*	32	9°929	6°594	45341*	25	25°021	12°183
45042	19	2°316	19°102	45116	12	18°258	22°298					45268	22	16°289	6°114	45342	21	1°569	13°852
45043	16	2°828	19°774	45117	8	18°323	22°315												

45353	10	1°060	14°909	45427	18	20°491	20°565	R. A. 17^h 51^m Plate 1822; 1901 July 18. Provisional Constants. A B C −00045 +00817 −1632 D E F −00857 −00048 −2209 Mag. = 15.5 − 1.25√d	45557	10	24°371	3°793	45631	10	9°886	9°616
45354	13	4°035	14°414	45428	9	24°369	20°768		45558	13	25°104	3°432	45632	10	11°307	9°154
45355	20	11°083	14°463	45429	11	24°378	20°892		45559	11	25°398	3°209	45633	19	12°128	9°309
45356	17	11°138	14°570	45430	11	1°862	21°463		45560	15	1°367	4°576	45634	18	13°743	9°202
45357	14	13°880	14°211	45431	22	2°701	21°695		45561	22	3°568	4°343	45635	11	17°952	9°159
45358*	45	15°467	14°254	45432	7	5°850	21°306		45562	10	4°746	4°828	45636	10	18°657	9°900
45359	10	20°502	14°531	45433	10	6°015	21°241	45563	10	5°316	4°389	45637	19	19°157	9°121	
45360	9	20°851	14°088	45434	10	6°101	21°693	45564	11	7°100	4°196	45638	10	21°483	9°650	
45361	10	21°225	14°572	45435*	30	6°885	21°252	45565	22	10°019	4°254	45639	9	25°899	9°888	
45362*	32	1°489	15°931	45436	10	9°958	21°490	45566	8	11°428	4°526	45640	10	0°661	10°621	
45363	9	4°440	15°437	45437	22	10°280	21°092	45567	21	11°729	4°445	45641	10	1°251	10°204	
45364	12	6°112	15°398	45438	9	12°296	21°241	45568	10	13°866	4°188	45642*	24	2°429	10°193	
45365	15	7°977	15°839	45439	11	12°676	21°973	45569	10	13°895	4°179	45643	10	5°441	10°394	
45366*	42	13°109	15°508	45440	9	16°180	21°415	45570	21	21°379	4°361	45644	11	10°044	10°399	
45367*	27	14°298	15°299	45441	7	5°553	22°077	45571	10	21°451	4°893	45645	12	10°131	10°496	
45368	10	15°984	15°425	45442	8	5°801	22°368	45572	10	21°529	4°684	45646	11	17°973	10°879	
45369*	36	24°414	15°849	45443	11	6°276	22°229	45573	10	21°603	4°159	45647*	21	20°360	10°877	
45370	12	25°437	15°634	45444	22	7°800	22°842	45574	20	21°741	4°522	45648*	31	20°392	10°934	
45371	8	5°434	16°519	45445	10	8°818	22°898	45575	10	22°176	4°201	45649	11	25°283	10°837	
45372	10	7°766	16°412	45446	12	9°031	22°794	45576	9	23°351	4°306	45650	10	25°350	10°860	
45373	17	11°524	16°206	45447	24	16°665	22°897	45577	11	23°719	4°426	45651	9	25°457	10°968	
45374*	32	12°380	16°038	45448	12	16°972	22°922	45578	8	25°949	4°508	45652	11	25°815	10°639	
45375	13	13°363	16°817	45449*	37	17°864	22°194	45579	17	2°131	5°953	45653	9	1°760	11°318	
45376	11	17°190	16°373	45450	10	18°865	22°348	45580	11	5°726	5°040	45654	8	1°800	11°257	
45377	12	18°717	16°048	45451	9	21°060	22°722	45581	10	6°003	5°325	45655	12	3°908	11°484	
45378	12	20°309	16°043	45452	10	25°226	22°555	45582	8	6°618	5°385	45656	7	5°200	11°712	
45379	15	20°553	16°815	45453	22	1°250	23°823	45583*	32	8°721	5°368	45657*	22	5°519	11°712	
45380	8	21°286	16°996	45454	10	7°554	23°624	45584	10	10°027	5°123	45658	10	5°730	11°376	
45381	10	22°063	16°615	45455	10	12°105	23°352	45585*	41	10°528	5°063	45659	12	6°603	11°485	
45382	8	23°361	16°290	45456	10	12°376	23°646	45586	22	10°617	5°201	45660*	30	6°640	11°127	
45383	13	23°608	16°616	45457	12	12°919	23°932	45587	10	11°832	5°646	45661	21	7°228	11°078	
45384	10	24°440	16°632	45458	10	18°292	23°286	45588	9	14°262	5°695	45662	12	10°476	11°245	
45385	8	24°702	16°260	45459	8	22°500	23°267	45589	10	14°278	5°675	45663	23	15°829	11°901	
45386	22	1°098	17°419	45460	16	0°645	24°533	45590*	25	16°372	5°974	45664	10	17°300	11°086	
45387	15	1°113	17°571	45461	25	1°710	24°759	45591	10	19°802	5°876	45665	7	18°307	11°750	
45388	22	2°805	17°341	45462	11	5°790	24°491	45592*	38	21°408	5°493	45666	12	22°559	11°135	
45389	12	5°797	17°702	45463	10	6°910	24°760	45593	11	21°475	5°927	45667	8	24°093	11°420	
45390	10	8°040	17°796	45464*	31	8°240	24°371	45594*	22	23°302	5°850	45668	9	24°919	11°306	
45391	17	11°648	17°533	45465	12	8°474	24°549	45595	9	23°412	5°061	45669	8	0°313	12°596	
45392	12	14°737	17°590	45466	10	10°284	24°336	45596	11	4°092	6°586	45670	14	0°492	12°333	
45393*	22	17°755	17°686	45467	13	12°015	24°565	45597*	22	8°960	6°987	45671*	34	1°183	12°288	
45394	11	21°890	17°499	45468	10	13°208	24°503	45598	10	14°225	6°932	45672	10	5°937	12°105	
45395	9	22°134	17°523	45469*	52	16°465	24°032	45599	15	17°738	6°572	45673	9	6°715	12°753	
45396	10	22°462	17°692	45470	13	17°973	24°261	45600	10	21°084	6°603	45674	22	11°499	12°357	
45397	8	5°508	18°029	45471	12	18°591	24°324	45601	13	23°563	6°839	45675	19	18°774	12°736	
45398	10	5°670	18°703	45472	10	20°774	24°694	45602	10	23°582	6°070	45676*	36	19°925	12°667	
45399	9	8°060	18°952	45473	15	21°494	24°216	45603	14	0°200	7°059	45677	14	20°046	12°255	
45400	10	10°555	18°078	45474	9	23°120	24°271	45604	16	2°174	7°309	45678*	33	21°927	12°600	
45401	17	10°734	18°936	45475	22	2°050	25°442	45605	15	2°651	7°807	45679	10	23°121	12°415	
45402	12	15°101	18°751	45476	13	4°111	25°015	45606	11	6°618	7°492	45680	8	25°008	12°791	
45403*	23	18°242	18°156	45477	9	10°300	25°669	45607	9	6°715	7°395	45681	7	25°036	12°691	
45404	12	22°109	18°439	45478	11	11°657	25°160	45608*	22	7°240	7°568	45682	9	25°203	12°436	
45405*	22	23°730	18°479	45479	11	13°510	25°348	45609	9	7°929	7°129	45683	11	25°688	12°902	
45406	13	1°858	19°698	45480	9	14°280	25°386	45610	10	12°409	7°938	45684	8	1°615	13°729	
45407	18	2°238	19°649	45481	22	15°231	25°968	45611	17	13°073	7°826	45685	7	5°994	13°266	
45408	31	3°756	19°896	45482	12	17°580	25°224	45612	19	16°267	7°281	45686	10	6°137	13°921	
45409	9	9°049	19°478	45483	8	20°187	25°861	45613	12	18°851	7°377	45687	17	7°809	13°534	
45410	10	9°378	19°291	45484	13	21°695	25°400	45614	10	19°725	7°785	45688	14	17°033	13°345	
45411	9	11°218	19°968					45615	18	20°668	7°107	45689*	12	2°454	14°448	
45412*	34	12°625	19°888					45616	11	21°314	7°345	45690	10	2°595	14°741	
45413	14	14°392	19°697					45617	10	24°202	7°91					

45705	19	8°970	15°640	45779	8	6°777	21°521	45853	10	11°420	24°870	45924	15	7°424	1°309	45998	16	20°285	3°756
45706	20	17°195	15°131	45780	12	9°476	21°239	45854	8	11°685	24°400	45925	9	8°805	1°168	45999	10	21°019	3°234
45707	12	19°401	15°931	45781	9	9°855	21°917	45855	10	11°688	24°334	45926	21	10°419	1°100	46000	21	21°499	3°809
45708	10	19°408	15°395	45782	11	12°320	21°303	45856	12	13°270	24°457	45927	9	10°596	1°213	46001	10	24°033	3°836
45709*	35	20°386	15°793	45783	10	12°361	21°763	45857	11	14°740	24°102	45928	12	11°090	1°059	46002	9	24°689	3°748
45710*	26	24°314	15°627	45784	19	14°377	21°088	45858	10	15°149	24°901	45929	14	11°739	1°542	46003	23	25°061	3°776
45711	10	0°710	16°747	45785	8	15°094	21°973	45859	10	15°175	24°176	45930	11	12°080	1°201	46004	12	25°332	3°047
45712	10	0°966	16°372	45786	11	16°786	21°885	45860	7	16°497	24°099	45931	12	12°207	1°922	46005	8	25°873	3°606
45713	12	2°701	16°793	45787	10	17°462	21°604	45861	8	17°240	24°560	45932	10	12°536	1°447	46006	23	0°324	4°079
45714*	27	3°220	16°868	45788	10	18°753	21°292	45862	10	17°492	24°932	45933	11	13°318	1°137	46007	10	1°359	4°552
45715	20	3°900	16°813	45789	22	18°996	21°854	45863	9	20°174	24°882	45934	11	14°321	1°960	46008	9	1°820	4°659
45716	10	5°771	16°094	45790	8	19°085	21°961	45864	17	23°251	24°793	45935	10	17°492	1°684	46009	17	1°914	4°775
45717	8	7°138	16°739	45791	10	20°024	21°640	45865	10	23°983	24°448	45936	11	17°898	1°534	46010	10	2°009	4°687
45718	10	7°481	16°688	45792	8	20°062	21°232	45866	9	25°824	24°102	45937	9	18°360	1°129	46011	12	2°675	4°228
45719	21	12°106	16°268	45793	11	21°523	21°015	45867	22	4°957	25°630	45938	8	18°777	1°763	46012	10	2°839	4°762
45720	16	17°003	16°819	45794	10	24°737	21°590	45868	10	5°195	25°312	45939	10	20°119	1°311	46013	22	2°975	4°817
45721	12	18°866	16°273	45795	10	1°639	22°649	45869	10	5°431	25°150	45940	21	20°155	1°630	46014	16	3°082	4°080
45722	10	19°508	16°223	45796	9	2°619	22°289	45870	10	6°921	25°860	45941	10	23°184	1°494	46015	10	3°311	4°943
45723	10	20°247	16°318	45797	10	3°306	22°791	45871	16	9°140	25°621	45942	7	24°593	1°294	46016	9	3°716	4°333
45724*	22	21°153	16°537	45798	10	5°154	22°116	45872	16	12°184	25°639	45943	10	25°738	1°691	46017	10	4°908	4°562
45725	8	23°390	16°706	45799	9	5°347	22°012	45873	18	13°929	25°782	45944	11	25°750	1°355	46018	11	5°340	4°961
45726	10	24°386	16°981	45800	9	5°781	22°533	45874	11	14°750	25°099	45945	22	2°705	2°963	46019	10	5°455	4°191
45727	12	5°471	17°287	45801	8	6°814	22°596	45875	10	17°905	25°804	45946*	32	5°631	2°841	46020	8	5°996	4°650
45728*	20	8°880	17°461	45802	10	6°887	22°345	45876	10	19°240	25°437	45947	12	5°769	2°295	46021	11	6°649	4°474
45729	10	9°301	17°730	45803	11	7°232	22°319	45877	21	19°275	25°852	45948	10	5°961	2°618	46022	17	8°251	4°556
45730	10	9°401	17°509	45804	12	7°313	22°905	45878	9	19°378	25°011	45949	10	6°249	2°694	46023	9	10°066	4°241
45731	10	9°521	17°822	45805	8	12°288	22°066	45879	10	23°149	25°890	45950*	29	6°448	2°417	46024	10	10°625	4°123
45732*	12	11°601	17°584	45806	10	14°401	22°983	45880	12	25°070	25°668	45951	10	6°706	2°120	46025	19	11°445	4°755
45733	21	15°039	17°091	45807	11	15°293	22°025					45952	10	6°836	2°039	46026	19	11°646	4°551
45734	9	15°468	17°854	45808	19	15°819	22°262					45953	10	10°259	2°733	46027	9	12°305	4°112
45735	10	18°822	17°524	45809	10	16°991	22°013					45954	9	11°015	2°540	46028	9	12°511	4°731
45736	9	21°783	17°235	45810	12	17°219	22°628					45955	10	13°050	2°174	46029	10	13°081	4°875
45737	10	25°220	17°969	45811	17	17°323	22°666					45956	11	13°286	2°240	46030	16	15°671	4°258
45738*	23	0°043	18°609	45812	10	18°867	22°713					45957*	47	14°581	2°081	46031	10	16°130	4°703
45739	21	2°709	18°456	45813	11	19°725	22°660					45958	10	14°653	2°158	46032	10	16°495	4°595
45740	8	2°847	18°236	45814	10	20°089	22°149					45959	17	15°013	2°527	46033	8	16°661	4°975
45741	8	2°959	18°881	45815	10	20°329	22°851					45960	10	15°247	2°100	46034	16	17°678	4°887
45742	8	3°710	18°182	45816*	22	24°355	22°368					45961	10	16°138	2°258	46035	10	19°310	4°618
45743	13	6°672	18°566	45817	10	24°599	22°670					45962	10	16°471	2°077	46036	9	20°087	4°663
45744	9	7°790	18°267	45818	9	24°652	22°453					45963	10	17°662	2°073	46037	7	20°265	4°916
45745	22	9°576	18°407	45819	10	3°110	23°949					45964	9	17°843	2°252	46038	22	20°269	4°307
45746	12	12°292	18°436	45820	10	6°138	23°492					45965	12	18°306	2°774	46039	9	21°150	4°843
45747	8	15°344	18°595	45821	10	7°129	23°298					45966	10	19°681	2°894	46040	10	22°434	4°548
45748	22	16°431	18°186	45822*	12	7°216	23°347					45967*	19	22°428	2°894	46041	22	23°887	4°144
45749	11	17°291	18°940	45823	11	8°128	23°540					45968	10	22°672	2°952	46042	15	23°924	4°002
45750*	10	18°570	18°856	45824	9	9°329	23°671					45969	10	25°030	2°154	46043	10	24°580	4°180
45751	8	22°468	18°476	45825	12	9°489	23°791					45970	10	25°392	2°776	46044	10	25°210	4°699
45752	8	23°072	18°408	45826	10	9°836	23°399					45971	31	1°052	3°711	46045	11	2°152	5°430
45753	21	24°666	18°036	45827	9	10°037	23°248					45972	29	1°343	3°487	46046	9	2°839	5°657
45754	9	2°341	19°181	45828	10	10°521	23°976					45973	17	2°620	3°205	46047	10	4°442	5°613
45755	11	3°353	19°859	45829	7	11°269	23°136					45974	10	3°886	3°626	46048	22	4°736	5°346
45756	10	3°363	19°991	45830	9	11°304	23°131					45975	12	4°009	3°992	46049	10	6°769	5°059
45757	9	4°729	19°482	45831	7	12°800	23°151					45976	10	6°207	3°142	46050	10	6°975	5°705
45758	10	7°661	19°928	45832	12	12°923	23°209					45977	16	6°541	3°165	46051	9	7°514	5°014
45759	10	7°710	19°890	45833	9	13°214	23°873					45978	11	7°337	3°536	46052	8	7°742	5°422
45760	10	8°266	19°332	45834	11	13°285	23°168					45979	10	7°349	3°899	46053	11	10°500	5°760
45761	8	14°018	19°841	45835	16	13°811	23°264					45980	22	7°620	3°940	46054	10	12°600	5°471
45762	7	0°749	20°894	45836	9	14°170	23°891					45981	10	9°881	3°138	46055*	21	14°551	5°190
45763	12	3°588	20°270	45837	8	16°739	23°633					45982	9	10°101	3°260	46056	12	14°683	5°683
45764	10	4°906	20°532	45838	9	20°216	23°190					45983	8	10°204	3°429	46057	10	15°305	5°823
45765	17	6°055	20°370	45839	10	20°588	23°317					45984	10	11°495	3°696	46058	9	15°305	5°287
45766	10	7°100	20°735	45840	10	20°950	23°848					45985	10	11°696	3°305	46059	10	15°842	5°499
45767	8	7°619	20°032	45841	10	21°283	23°726					45986	13	11°700	3°950	46060	11	16°323	5°411
45768*	30	8°376	20°174	45842	10	21°478	23°818					45987	11	13°372	3°886	46061	10	16°400	5°519
45769	9	8°700	20°541	45843	22	21°940	23°679					45988	10	13°944	3°796	46062	11	18°566	5°147
45770	10	10°006	20°468	45844	10	24°214	23°958					45989	11	14°372	3°294	46063	12	20°685	5°975
45771	8	10°203	20°256	45845	11	5°558	24°830					45990	10	14°836	3°930	46064	10	21°660	5°592
45772	10	11°450	20°447																

46072	9	1°965	6°538	46146*	34	20°437	8°365	46220	11	10°542	11°172	46294	14	6°986	14°141	46368	13	12°722	17°309
46073	10	4°510	6°617	46147	10	22°462	8°223	46221	9	11°700	11°901	46295	10	7°900	14°435	46369	20	12°811	17°059
46074	8	6°612	6°525	46148*	19	23°128	8°747	46222	10	11°917	11°459	46296	10	8°361	14°432	46370	12	13°514	17°834
46075	11	7°596	6°657	46149*	10	23°322	8°900	46223	12	13°292	11°278	46297*	17	10°435	14°412	46371	11	14°390	17°701
46076	10	9°438	6°878	46150	11	23°352	8°713	46224*	16	14°911	11°973	46298	10	10°483	14°322	46372	10	15°632	17°997
46077	10	9°855	6°412	46151	9	24°413	8°020	46225	11	15°344	11°511	46299	10	11°125	14°244	46373	10	16°200	17°228
46078	10	10°254	6°179	46152	10	24°870	8°841	46226	11	17°395	11°921	46300	12	11°249	14°245	46374	16	17°067	17°237
46079*	22	11°450	6°764	46153	9	25°052	8°462	46227	11	18°357	11°995	46301	14	13°771	14°287	46375	8	17°553	17°485
46080	10	11°959	6°030	46154	11	25°460	8°194	46228	10	22°510	11°390	46302	9	14°987	14°590	46376	10	17°621	17°550
46081	9	12°290	6°959	46155	13	25°531	8°362	46229	12	24°887	11°460	46303	10	15°881	14°750	46377	9	20°419	17°351
46082	10	12°747	6°904	46156	13	0°498	9°226	46230	20	24°984	11°987	46304	20	17°100	14°865	46378*	35	21°132	17°353
46083	11	14°605	6°566	46157	22	4°584	9°300	46231	15	25°316	11°948	46305	10	17°274	14°439	46379	10	21°251	17°013
46084	10	15°953	6°452	46158	10	5°049	9°819	46232	12	1°123	12°971	46306	9	18°780	14°178	46380	19	21°493	17°008
46085	10	16°045	6°168	46159	11	5°636	9°215	46233	10	1°194	12°594	46307	10	19°815	14°730	46381	9	21°740	17°483
46086	10	16°800	6°579	46160	8	7°401	9°016	46234	12	1°288	12°713	46308	21	20°906	14°360	46382*	23	21°811	17°831
46087	10	17°008	6°196	46161	10	9°933	9°475	46235	10	2°975	12°400	46309	10	22°531	14°179	46383	10	21°906	17°684
46088	9	17°723	6°381	46162	10	11°460	9°905	46236	10	3°041	12°454	46310*	22	22°652	14°563	46384*	32	23°365	17°976
46089	22	17°837	6°692	46163	12	11°878	9°281	46237	11	3°328	12°557	46311	10	22°930	14°687	46385	19	23°779	17°663
46090	10	18°613	6°956	46164	9	12°895	9°553	46238	10	3°630	12°099	46312	12	25°409	14°759	46386	12	25°060	17°097
46091	9	19°750	6°125	46165	12	13°711	9°715	46239*	32	4°186	12°254	46313	10	25°571	14°442	46387	32	0°837	18°317
46092	10	20°637	6°108	46166	10	14°118	9°760	46240	9	7°241	12°778	46314	9	25°586	14°130	46388	12	1°389	18°238
46093	10	21°490	6°438	46167	8	14°811	9°535	46241	12	7°339	12°738	46315	10	25°714	14°231	46389	10	1°921	18°408
46094	10	21°662	6°251	46168	9	17°829	9°590	46242	10	8°858	12°427	46316	11	25°861	14°599	46390	22	3°975	18°469
46095	9	22°191	6°913	46169	10	19°083	9°743	46243	9	9°126	12°969	46317*	37	0°450	15°915	46391	10	4°196	18°353
46096	10	23°150	6°401	46170	12	20°489	9°103	46244	20	11°263	12°804	46318	9	1°374	15°372	46392	17	4°342	18°795
46097	9	23°662	6°045	46171	10	22°928	9°888	46245	12	11°544	12°451	46319	10	1°928	15°075	46393	10	4°350	18°938
46098	10	24°641	6°789	46172	12	23°961	9°900	46246*	37	14°254	12°000	46320	10	2°136	15°147	46394	10	5°093	18°307
46099	22	25°789	6°023	46173	10	24°379	9°542	46247	13	15°667	12°322	46321	16	4°118	15°262	46395	13	5°234	18°045
46100	10	2°191	7°841	46174	9	24°877	9°208	46248	10	15°934	12°748	46322	10	5°114	15°208	46396	10	5°462	18°216
46101	9	3°557	7°248	46175	20	1°872	10°905	46249	10	17°867	12°666	46323	8	6°426	15°380	46397	9	5°485	18°604
46102	10	4°151	7°733	46176	10	1°945	10°148	46250	10	20°515	12°167	46324	10	6°942	15°329	46398	9	6°664	18°234
46103	8	5°613	7°806	46177	8	3°771	10°934	46251	9	21°493	12°419	46325	10	7°502	15°991	46399	21	7°105	18°395
46104	12	8°128	7°386	46178*	25	4°921	10°532	46252	15	22°089	12°211	46326	20	9°025	15°875	46400	11	7°268	18°743
46105	9	10°589	7°913	46179*	29	5°483	10°758	46253	9	22°200	12°453	46327	10	11°255	15°605	46401	10	8°389	18°123
46106	11	12°626	7°705	46180	10	6°380	10°530	46254	10	22°297	12°141	46328	22	16°454	15°433	46402*	31	9°662	18°196
46107	10	15°518	7°268	46181	10	7°100	10°363	46255	11	22°545	12°595	46329	10	17°020	15°456	46403*	19	10°568	18°689
46108	29	15°846	7°200	46182	9	9°021	10°862	46256	17	23°948	12°858	46330	10	19°633	15°948	46404	12	10°937	18°888
46109	18	15°885	7°054	46183	8	9°589	10°258	46257	12	1°100	13°066	46331	10	20°858	15°664	46405	10	13°141	18°438
46110*	48	16°036	7°442	46184	10	10°286	10°366	46258	9	1°331	13°777	46332	18	20°956	15°749	46406	7	14°408	18°000
46111	11	17°068	7°403	46185	11	10°595	10°432	46259	10	1°357	13°900	46333	13	25°936	15°362	46407	21	17°744	18°395
46112	10	17°793	7°177	46186	9	10°919	10°358	46260	21	1°779	13°169	46334	10	0°894	16°392	46408	15	17°963	18°065
46113	9	18°405	7°674	46187	11	11°003	10°880	46261	10	3°124	13°816	46335	10	3°740	16°643	46409	9	19°740	18°320
46114	10	19°445	7°761	46188*	24	11°014	10°902	46262	15	3°472	13°411	46336	9	4°164	16°848	46410	11	19°775	18°493
46115	10	20°121	7°717	46189	10	13°575	10°175	46263	11	3°510	13°314	46337	10	6°525	16°678	46411	10	19°786	18°925
46116	10	20°161	7°467	46190	16	14°055	10°813	46264	10	3°563	13°982	46338	9	7°441	16°964	46412	9	20°575	18°710
46117	22	21°555	7°719	46191	10	14°134	10°238	46265	10	3°671	13°216	46339	9	7°596	16°495	46413	10	21°395	18°690
46118	10	22°845	7°342	46192	10	14°511	10°494	46266	22	4°078	13°547	46340	23	8°331	16°297	46414	11	21°664	18°039
46119	12	23°427	7°624	46193	12	14°800	10°057	46267	10	6°721	13°428	46341	12	9°189	16°649	46415	10	23°036	18°644
46120	16	25°144	7°600	46194	21	14°964	10°619	46268	15	6°995	13°807	46342	11	9°626	16°681	46416	12	24°853	18°418
46121	10	25°606	7°273	46195	15	15°365	10°788	46269	10	8°551	13°638	46343	10	9°659	16°995	46417	11	25°084	18°740
46122	12	25°928	7°318	46196	10	18°481	10°413	46270	10	8°815	13°578	46344	10	10°036	16°584	46418	18	3°037	19°340
46123	15	0°218	8°207	46197	10	18°767	10°817	46271	10	9°975	13°157	46345	9	10°394	16°020	46419	10	3°146	19°068
46124	16	0°640	8°593	46198	13	19°652	10°205	46272	17	10°524	13°780	46346	16	10°430	16°918	46420	12	3°678	19°884
46125	11	1°065	8°487	46199	14	20°497	10°131	46273	10	15°107	13°114	46347	12	10°862	16°984	46421*	40	4°975	19°177
46126	10	1°269	8°932	46200	10	21°899	10°560	46274	11	15°564	13°543	46348	10	11°964	16°701	46422	11	5°854	19°018
46127	11	2°746	8°290	46201	9	24°462	10°158	46275	10	16°786	13°091	46349	10	12°515	16°111	46423	9	9°477	19°909
46128	5	3°041	8°455	46202	10	24°588	10°222	46276	10	18°158	13°822	46350	22	14°985	16°869	46424	10	10°100	19°055
46129	10	3°485	8°550	46203	10	24°731	10°727	46277	11	18°611	13°236	46351	19	15°281	16°620	46425	9	10°214	19°602
46130	9	3°667	8°082	46204	9	25°101	10°500	46278	10	19°481	13°132	46352	20	15°806	16°120	46426	22	10°249	19°541
46131	10	4°745	8°483	46205	10	25°108	10°164	46279	10	20°018	13°859	46353	8	16°753	16°030	46427	10	10°439	19°164
46132	18	5°929	8°101	46206	10	25°538	10°331	46280	10	21°092	13°000	46354	18	17°732	16°291	46428*	22	12°426	19°425
46133	20	6°036	8°711	46207	15	0°162	11°713	46281	10	23°118	13°969	46355	9	20°274	16°449	46429	8	12°451	19°029
46134	22	7°077	8°660	46208	10	0°985	11°587	46282											

46442	11	21°027	19°307	46516	10	0°892	22°738	46590	10	11°433	24°386	46719	30	4°027	1°055	46793	20	24°876	5°225
46443	10	21°225	19°587	46517	11	2°929	22°856	46591	12	11°959	24°733	46720	20	6°334	1°653	46794	40	1°396	6°291
46444	9	21°493	19°564	46518	10	4°077	22°292	46592	12	15°538	24°513	46721	24	8°429	1°747	46795	35	1°951	6°434
46445	10	21°905	19°168	46519	9	4°478	22°611	46593	13	17°970	24°371	46722	16	9°009	1°896	46796	23	3°186	6°197
46446	10	21°913	19°904	46520	10	5°078	22°383	46594	10	18°229	24°936	46723	20	10°056	1°139	46797	19	3°365	6°178
46447	12	22°671	19°051	46521	22	5°163	22°427	46595	12	19°032	24°327	46724	22	10°188	1°354	46798	13	5°192	6°017
46448	10	24°276	19°909	46522	10	5°518	22°003	46596	9	19°075	24°177	46725	22	10°561	1°750	46799	20	5°715	6°569
46449	10	24°452	19°541	46523	11	5°786	22°547	46597	14	19°147	24°523	46726	20	12°151	1°003	46800	19	6°621	6°986
46450	13	24°532	19°340	46524	12	6°236	22°416	46598	11	20°448	24°465	46727	31	13°314	1°240	46801	15	7°377	6°012
46451	15	25°641	19°800	46525*	23	7°100	22°717	46599	10	20°836	24°575	46728	20	16°540	1°788	46802	22	7°691	6°323
46452	10	2°427	20°812	46526	9	8°400	22°586	46600	12	21°060	24°761	46729	23	19°221	1°485	46803	21	8°525	6°202
46453	10	2°471	20°134	46527	10	8°879	22°762	46601	19	21°326	24°984	46730	14	21°039	1°697	46804	20	9°803	6°924
46454	11	3°389	20°350	46528	16	9°819	22°073	46602	10	23°979	24°086	46731*	40	22°400	1°673	46805	23	11°038	6°671
46455	9	3°923	20°168	46529	10	10°427	22°769	46603	13	23°983	24°262	46732	20	24°324	1°026	46806	14	11°520	6°691
46456	10	4°112	20°398	46530	11	11°106	22°814	46604	16	24°217	24°747	46733	16	25°759	1°293	46807	33	11°626	6°118
46457	10	4°670	20°871	46531	10	11°565	22°211	46605	25	25°508	24°311	46734*	29	6°814	2°555	46808	33	12°393	6°231
46458	10	5°055	20°316	46532	10	11°789	22°408	46606	13	25°605	24°432	46735	20	6°941	2°715	46809	24	14°989	6°308
46459	10	6°008	20°705	46533	22	12°600	22°229	46607	9	25°881	24°352	46736	18	6°946	2°360	46810	27	15°414	6°808
46460	9	6°688	20°924	46534	7	13°064	22°088	46608	22	1°355	25°946	46737	22	9°415	2°624	46811	20	15°695	6°792
46461	10	8°154	20°798	46535	10	14°723	22°103	46609	29	5°617	25°258	46738	19	9°990	2°379	46812	26	17°819	6°596
46462	13	8°250	20°458	46536	11	15°178	22°222	46610	14	9°835	25°348	46739	14	12°861	2°993	46813	12	19°675	6°635
46463	10	8°898	20°711	46537	20	16°199	22°002	46611	10	9°951	25°840	46740	20	15°986	2°761	46814	13	19°755	6°061
46464	22	10°223	20°195	46538	9	16°634	22°466	46612	10	10°535	25°527	46741*	48	19°440	2°786	46815	14	20°306	6°907
46465	9	10°926	20°039	46539	10	17°466	22°480	46613	9	10°586	25°490	46742	19	22°267	2°864	46816	20	20°411	6°590
46466	8	12°921	20°199	46540	14	17°640	22°262	46614	10	12°401	25°647	46743	20	23°278	2°436	46817	22	23°509	6°186
46467	9	13°236	20°942	46541*	22	18°805	22°554	46615	16	13°901	25°221	46744	20	24°344	2°515	46818	31	0°776	7°875
46468	10	13°716	20°429	46542	11	19°784	22°375	46616*	42	15°808	25°651	46745	14	24°392	2°351	46819	18	1°235	7°545
46469	8	14°299	20°798	46543	10	20°325	22°465	46617	10	16°245	25°755	46746	25	0°884	3°323	46820	25	1°559	7°581
46470	9	14°471	20°209	46544	10	20°797	22°281	46618	22	18°169	25°953	46747	27	2°506	3°942	46821	18	2°966	7°633
46471	10	14°521	20°334	46545	19	21°111	22°181	46619	13	22°226	25°113	46748	19	2°934	3°423	46822	28	5°000	7°336
46472	11	15°756	20°180	46546	11	21°405	22°017	46620	10	24°366	25°240	46749	28	4°220	3°819	46823	13	6°937	7°926
46473*	44	16°951	20°886	46547	10	23°540	22°599	46621	38	25°834	25°853	46750	20	5°326	3°461	46824	14	7°738	7°515
46474	12	17°489	20°008	46548	9	25°389	22°147					46751	23	8°948	3°679	46825	29	8°163	7°224
46475	10	18°156	20°596	46549	10	3°489	23°695					46752	18	11°829	3°944	46826	23	11°340	7°900
46476	9	18°415	20°199	46550	15	3°662	23°027					46753	30	17°500	3°055	46827	21	11°516	7°056
46477	10	19°189	20°656	46551	15	4°271	23°072					46754	19	18°951	3°252	46828	17	11°862	7°905
46478	17	20°312	20°417	46552	10	4°995	23°663					46755	12	21°445	3°106	46829	20	12°417	7°560
46479	10	20°351	20°111	46553	11	5°502	23°813					46756	17	22°353	3°178	46830	21	12°450	7°787
46480*	27	21°550	20°415	46554	10	6°346	23°567					46757	12	22°835	3°581	46831	18	15°128	7°261
46481	10	22°012	20°941	46555	12	7°160	23°283					46758	38	0°628	4°055	46832	14	15°560	7°741
46482	10	23°476	20°880	46556	14	7°647	23°866					46759	19	0°790	4°970	46833	22	17°924	7°149
46483*	32	23°560	20°614	46557	11	8°805	23°873					46760	30	1°611	4°883	46834*	38	18°464	7°896
46484	10	24°433	20°279	46558	10	9°059	23°452					46761	30	2°570	4°666	46835	19	19°950	7°759
46485	10	24°674	20°590	46559	12	9°645	23°207					46762	17	5°979	4°680	46836	21	19°997	7°711
46486	15	0°961	21°873	46560	11	9°646	23°597					46763	32	7°528	4°930	46837	17	20°889	7°118
46487	22	2°470	21°208	46561	12	9°739	23°768					46764	18	8°410	4°625	46838	17	25°094	7°698
46488*	62	3°347	21°547	46562	13	11°329	23°597					46765	24	11°540	4°231	46839	23	1°105	8°469
46489	10	3°422	21°743	46563	9	12°335	23°495					46766	21	13°626	4°798	46840	21	1°178	8°636
46490	9	4°680	21°033	46564	11	12°841	23°810					46767	20	15°984	4°107	46841	13	1°856	8°628
46491	11	4°796	21°479	46565	10	13°639	23°682					46768	20	16°545	4°903	46842	19	2°099	8°905
46492	10	6°213	21°361	46566	12	13°706	23°339					46769	22	17°035	4°982	46843	20	3°846	8°300
46493	10	9°427	21°601	46567	9	15°413	23°883					46770	30	17°911	4°878	46844	30	5°803	8°907
46494	18	9°917	21°889	46568	12	16°565	23°332					46771	15	18°543	4°155	46845	13	6°400	8°860
46495	8	15°311	21°548	46569	10	16°889	23°803					46772	13	19°414	4°542	46846	20	8°008	8°506
46496	10	15°357	21°333	46570	13	17°435	23°857					46773	25	19°722	4°038	46847	30	8°642	8°377
46497	9	15°436	21°164	46571	9	17°466	23°077					46774	24	20°664	4°519	46848*	60	10°142	8°383
46498	10	15°738	21°416	46572	10	17°568	23°162					46775	13	21°892	4°480	46849	15	14°071	8°095
46499	9	15°775	21°000	46573	11	18°041	23°613					46776	32	24°491	4°049	46850	19	17°414	8°053
46500	9	17°109	21°846	46574	12	18°275	23°341					46777	22	25°480	4°839	46851	22	22°275	8°879
46501	16	17°526	21°685	46575	10	18°669	23°541					46778	40	0°800	5°571	46852	11	22°840	8°457
46502	10	18°625	21°384	46576	10	19°528	23°232					46779	21	1°549	5°834	46853*	36	24°786	8°989
46503	10	18°873	21°708	46577	11	19°609	23°773					46780	21	2°870	5°645	46854	20	25°433	8°098
46504	20	19°083	21°829	46578*	21	22°795	23°245					46781	20	4°739	5°072	46855	11	25°843	8°480
46505	10	19°315	21°262	46579	9	24°583	23°592					46782	17	5°180	5°445	46856	25	2°515	9°081
46506	22	19°352	21°232	46580	10	25°954	23°193					46783	20	5°310	5°330	46857	18	3°550	9°300
46507	10	20°197	21°479	46581	22	3°375	24°302					46784	15	6°504	5°054	46858	19	3°554	9°925
46508	8	20°391	21°771	46582	27	5°479	24°212												

46867	19	17.947	9.636	46941	22	3.188	14.741	47015	18	14.440	18.494	47089	30	8.069	22.741
46868	13	24.425	9.124	46942	30	3.242	14.435	47016	20	14.770	18.484	47090	22	11.255	22.441
46869	18	25.911	9.437	46943	13	5.565	14.450	47017	19	16.149	18.662	47091	13	12.304	22.045
46870	11	2.336	10.613	46944	20	7.395	14.295	47018	20	18.224	18.503	47092	14	13.037	22.936
46871	17	3.374	10.301	46945	15	8.500	14.743	47019	30	18.961	18.296	47093	15	14.519	22.442
46872	38	3.466	10.512	46946	15	11.407	14.276	47020	14	19.914	18.552	47094	14	16.856	22.080
46873	22	4.897	10.006	46947	19	13.031	14.663	47021	21	19.985	18.354	47095	13	18.426	22.981
46874	29	6.531	10.159	46948	17	14.534	14.320	47022	11	22.491	18.307	47096	25	18.590	22.056
46875	30	7.000	10.006	46949	27	15.007	14.889	47023	20	23.648	18.160	47097*	30	19.079	22.876
46876	20	8.207	10.961	46950*	40	21.209	14.612	47024	23	0.302	19.830	47098	14	20.797	22.816
46877	29	9.012	10.891	46951	20	23.733	14.748	47025	30	0.379	19.628	47099	35	21.976	22.128
46878	15	9.051	10.354	46952*	30	24.037	14.297	47026	21	0.920	19.018	47100	28	25.062	22.034
46879*	40	9.081	10.548	46953	15	25.835	14.916	47027	25	2.840	19.652	47101	19	2.548	23.610
46880	25	9.555	10.261	46954	22	1.169	15.028	47028	18	3.707	19.526	47102	30	4.000	23.511
46881	13	11.307	10.109	46955	22	1.712	15.625	47029	19	4.758	19.017	47103	13	4.102	23.831
46882	27	12.079	10.328	46956	38	2.944	15.041	47030	20	4.942	19.018	47104	20	4.821	23.095
46883	26	15.071	10.518	46957	20	5.056	15.908	47031	20	5.420	19.746	47105*	30	5.098	23.634
46884	24	16.706	10.745	46958	14	5.145	15.976	47032	13	6.993	19.353	47106	29	5.520	23.581
46885	30	20.834	10.447	46959	20	6.373	15.785	47033	21	9.875	19.351	47107	21	5.849	23.691
46886	13	24.910	10.969	46960	17	7.624	15.500	47034	30	11.124	19.393	47108	19	6.610	23.596
46887	25	0.591	11.741	46961*	26	9.593	15.550	47035	20	11.190	19.244	47109	18	7.355	23.733
46888	13	4.904	11.829	46962	22	10.094	15.753	47036	20	14.200	19.313	47110	20	8.500	23.758
46889	24	5.639	11.976	46963*	50	12.595	15.673	47037	12	17.737	19.021	47111*	38	9.084	23.410
46890	24	6.007	11.549	46964*	51	12.724	15.540	47038	17	19.748	19.500	47112	22	9.927	23.640
46891	23	9.540	11.438	46965*	60	15.600	15.185	47039	17	23.238	19.071	47113	14	12.691	23.689
46892	21	9.911	11.515	46966	29	20.150	15.795	47040	13	24.149	19.780	47114	12	14.114	23.568
46893	18	10.013	11.204	46967*	33	20.780	15.860	47041	18	24.624	19.739	47115*	21	15.126	23.041
46894	18	11.894	11.790	46968	18	21.323	15.175	47042	28	0.134	20.200	47116	12	15.670	23.626
46895	22	13.555	11.228	46969	18	22.306	15.864	47043	29	1.495	20.066	47117	14	18.575	23.988
46896	23	16.083	11.657	46970	20	23.057	15.663	47044	26	2.152	20.254	47118	30	20.242	23.812
46897*	20	17.784	11.774	46971	11	23.378	15.884	47045	26	2.962	20.067	47119	13	20.495	23.683
46898	16	18.706	11.120	46972	14	24.014	15.907	47046	22	4.391	20.574	47120	20	20.564	23.100
46899	15	19.275	11.354	46973	11	24.065	15.610	47047	11	7.505	20.360	47121	21	25.236	23.322
46900	25	20.290	11.717	46974	30	24.727	15.527	47048	15	8.386	20.186	47122	13	25.659	23.105
46901	23	20.575	11.532	46975	15	25.128	15.846	47049*	30	9.204	20.801	47123	40	1.441	24.580
46902	27	23.043	11.370	46976	19	25.263	15.778	47050	20	11.287	20.371	47124	21	1.541	24.700
46903	24	24.516	11.963	46977	22	1.566	16.449	47051	18	19.800	20.115	47125	24	2.341	24.478
46904	38	0.696	12.265	46978	21	4.465	16.048	47052	12	20.241	20.309	47126	23	3.219	24.965
46905	24	1.028	12.220	46979	25	4.832	16.012	47053	12	23.470	20.304	47127	30	3.650	24.214
46906	19	6.476	12.251	46980	19	6.416	16.826	47054	28	25.232	20.078	47128	13	6.420	24.179
46907*	40	6.785	12.460	46981	21	7.767	16.893	47055	13	25.285	20.089	47129	20	6.489	24.302
46908	20	7.385	12.099	46982*	30	8.957	16.502	47056	30	1.049	21.705	47130	22	6.652	24.852
46909	26	9.694	12.325	46983	20	16.330	16.929	47057	20	2.140	21.488	47131	21	9.660	24.755
46910	13	11.650	12.446	46984	19	17.883	16.431	47058	27	2.938	21.564	47132	20	10.778	24.150
46911	30	12.425	12.221	46985	17	21.253	16.892	47059	29	3.805	21.496	47133	24	14.390	24.877
46912	19	17.631	12.824	46986	15	23.769	16.166	47060	21	4.144	21.505	47134	25	14.797	24.443
46913	30	17.723	12.752	46987	30	23.885	16.969	47061	16	4.808	21.730	47135	20	15.704	24.237
46914*	29	21.594	12.392	46988	21	25.044	16.343	47062*	26	4.924	21.188	47136	28	17.104	24.857
46915	12	24.379	12.715	46989	22	0.867	17.374	47063	19	5.387	21.311	47137	20	20.010	24.700
46916	11	25.057	12.207	46990	19	1.941	17.770	47064	17	6.175	21.612	47138	19	20.549	24.215
46917	12	25.197	12.959	46991	17	2.694	17.302	47065	23	7.114	21.900	47139	15	21.042	24.979
46918	21	2.325	13.455	46992	17	5.311	17.450	47066	16	7.670	21.206	47140	13	21.342	24.663
46919	20	2.510	13.528	46993	13	5.346	17.701	47067	10	8.094	21.749	47141	18	21.778	24.052
46920	23	2.530	13.907	46994	20	6.421	17.322	47068	17	8.120	21.444	47142	19	22.101	24.119
46921	17	2.531	13.848	46995	22	8.894	17.496	47069	27	9.051	21.158	47143	18	22.225	24.329
46922	12	4.806	13.096	46996	13	8.965	17.547	47070*	24	10.246	21.309	47144	22	24.311	24.514
46923	30	6.837	13.730	46997	21	9.278	17.479	47071*	30	12.665	21.554	47145	33	25.574	24.796
46924	16	6.900	13.087	46998	20	14.051	17.500	47072	21	13.050	21.358	47146	29	0.160	25.039
46925	19	8.963	13.153	46999	21	18.274	17.064	47073	12	13.487	21.485	47147	16	4.710	25.282
46926	15	10.435	13.138	47000	31	19.326	17.295	47074	17	14.824	21.816	47148*	50	6.415	25.685
46927*	30	11.903	13.777	47001	14	19.453	17.556	47075	17	15.097	21.302	47149	16	7.122	25.046
46928*	40	12.420	13.308	47002	30	24.253	17.628	47076	30	15.155	21.417	47150	22	9.783	25.195
46929	19	12.894	13.550	47003	21	24.260	17.574	47077*	31	18.366	21.018	47151	13	9.903	25.035
46930	23	15.663	13.066	47004	22	24.459	17.863	47078	12	19.978	21.058	47152	14	10.571	25.008
46931	21	17.125	13.575	47005	14	25.569	17.748	47079	21	21.874	21.548	47153	11	12.169	25.677
46932	20	17.728	13.180	47006	30	0.684	18.698	47080	22	24.161	21.822	47154	22	13.331	25.724
46933	19	18.191	13.376	47007*	39	5.610	18.119	47081	17	25.305	21.190	47155	22	16.270	25.835
46934	15	21.133	13.813	47008	20	6.481	18.041	47082	20	25.435	21.434	47156	13	19.842	25.406
46935	13	22.102	13.926	47009*	27	9.796	18.817	47083	21	3.147	22.215	47157	23	22.550	25.324
46936	18	22.840	13.854	47010	17	10.238	18.220	47084	36	3.831	22.019	47158	22	23.299	25.347
46937	20	25.183	13.409	47011	30	11.136	18.305	47085	14	4.655	22.074	47159	23	24.091	25.885
46938	18	1.619	14.860	47012*	25	11.527	18.766	47086	20	5.494	22.826	47160	21	24.692	25.075
46939	22	2.118	14.397	47013	20	12.166	18.278	47087	19	5.662	22.879	47161	19	25.851	25.709
46940	20	2.776	14.637	47014	21	13.390	18.479	47088	20	7.954	22.970	47162	15	25.885	25.122

R. A. 18^h 18^m

Plate 1823; 1901 July 18.

Provisional Constants.

A	B	C
-00050	+00259	-0096

D	E	F
-00252	-00035	-0872

Mag. = 16.5 -

47257	18	5°31'9	4°58'9	47331	12	2°6'25	9°42'9	47405	12	0°8'34	15°9'27	47479	11	22°6'04	19°0'75	47553	8	7°29'9	24°3'77
47258	10	7°0'90	4°6'95	47332	10	4°4'99	9°4'60	47406	36	1°5'41	15°5'56	47480	13	25°3'06	19°8'36	47554*	60	9°1'88	24°1'51
47259	9	12°6'75	4°8'64	47333	12	9°7'19	9°6'50	47407	10	1°9'50	15°8'46	47481	20	2°1'21	20°0'81	47555	10	10°1'88	24°6'54
47260	14	15°1'45	4°8'18	47334	13	14°1'98	9°2'88	47408	18	2°0'81	15°7'78	47482*	33	3°0'40	20°8'48	47556	13	12°4'40	24°6'85
47261	17	17°4'60	4°7'35	47335	17	14°7'48	9°5'46	47409	9	4°7'05	15°1'27	47483	12	4°2'19	20°6'95	47557	18	12°5'39	24°7'02
47262	14	17°5'28	4°4'72	47336	22	14°8'05	9°5'76	47410*	29	6°4'82	15°2'45	47484	12	4°9'67	20°5'72	47558	10	14°8'61	24°5'51
47263	20	17°9'10	4°1'95	47337*	31	19°0'50	9°7'91	47411	28	18°1'34	15°0'39	47485	31	5°9'95	20°1'30	47559	8	15°4'25	24°8'76
47264	22	19°0'69	4°6'59	47338*	37	19°3'35	9°5'66	47412*	31	18°9'35	15°8'87	47486	16	7°1'84	20°1'46	47560	9	15°4'78	24°8'69
47265	26	19°3'10	4°9'65	47339	12	19°8'35	9°9'40	47413*	40	19°0'06	15°7'00	47487	11	9°0'10	20°1'89	47561	12	15°9'89	24°5'54
47266*	65	20°9'90	4°9'53	47340	21	21°1'64	9°5'05	47414	28	19°2'96	15°4'06	47488	11	9°4'12	20°7'55	47562	20	21°9'90	24°1'75
47267	32	21°6'33	4°9'42	47341	16	23°8'60	9°5'23	47415	12	22°9'72	15°2'27	47489	9	9°9'70	20°4'43	47563	23	22°3'40	24°4'94
47268	10	23°3'28	4°8'04	47342	12	2°8'50	10°3'17	47416	20	25°3'25	15°3'95	47490	9	12°1'59	20°1'14	47564	10	23°0'44	24°9'73
47269	11	23°5'96	4°5'67	47343	11	2°9'75	10°6'02	47417	40	0°7'20	16°9'93	47491	19	14°4'02	20°2'82	47565	17	25°7'15	24°4'26
47270	28	23°8'30	4°9'89	47344*	40	3°7'90	10°2'73	47418	20	1°8'73	16°3'46	47492	11	18°6'14	20°6'38	47566	19	6°5'40	25°3'77
47271*	43	25°0'10	4°3'21	47345	11	4°3'97	10°1'54	47419	12	3°6'05	16°5'51	47493	11	19°3'39	20°6'61	47567*	26	8°4'46	25°4'32
47272*	32	25°1'91	4°5'87	47346	9	4°4'58	10°7'16	47420	12	8°2'80	16°2'98	47494	11	22°9'70	20°5'01	47568	12	11°4'32	25°0'85
47273	14	1°5'24	5°2'33	47347	11	5°3'50	10°4'54	47421	15	9°5'48	16°5'35	47495	21	22°9'91	20°7'72	47569	25	13°0'80	25°9'04
47274	14	2°7'33	5°8'56	47348*	14	6°4'68	10°5'74	47422	19	10°1'57	16°0'87	47496	26	25°2'70	20°4'20	47570	15	15°0'25	25°1'07
47275	12	5°8'00	5°2'95	47349*	34	11°8'25	10°1'05	47423*	41	10°9'83	16°3'35	47497	15	25°2'74	20°4'40	47571	9	15°3'23	25°5'11
47276	32	10°2'66	5°5'54	47350*	31	18°1'10	10°0'35	47424	11	11°6'10	16°5'61	47498	21	25°7'98	20°7'09	47572	10	15°4'10	25°7'94
47277	30	11°0'76	5°0'02	47351	17	20°6'85	10°0'31	47425	13	12°7'91	16°2'41	47499	13	1°0'76	21°8'42	47573	12	15°5'39	25°0'56
47278	10	11°1'69	5°2'30	47352*	29	23°9'68	10°5'84	47426	9	14°4'09	16°6'71	47500	12	5°4'75	21°4'43	47574	10	16°6'51	25°4'84
47279	13	12°6'64	5°0'34	47353	12	24°0'75	10°2'97	47427	10	21°1'04	16°5'22	47501	9	9°5'78	21°2'03	47575	12	16°7'80	25°0'37
47280	28	14°2'88	5°6'74	47354	9	24°4'31	10°7'53	47428	9	23°2'70	16°1'54	47502*	41	11°6'25	21°2'99	47576	14	17°0'18	25°3'52
47281	18	16°6'15	5°8'30	47355	9	24°5'15	10°2'20	47429	37	1°1'02	17°6'47	47503	22	15°2'03	21°0'31	47577	40	17°0'71	25°9'63
47282	10	18°5'71	5°5'66	47356	22	25°0'40	10°6'87	47430	17	1°1'09	17°5'90	47504	21	16°4'45	21°5'50	47578	10	17°5'06	25°9'73
47283	23	19°0'79	5°2'94	47357	10	25°2'43	10°7'11	47431	21	1°3'12	17°8'77	47505	22	16°7'34	21°5'44	47579*	40	17°6'09	25°4'83
47284	12	20°6'16	5°0'88	47358	15	25°8'14	10°0'64	47432	20	5°0'20	17°1'45	47506	11	17°2'91	21°0'85	47580	22	21°4'07	25°0'11
47285	22	20°9'52	5°6'01	47359	22	1°2'71	11°9'76	47433	11	6°0'87	17°9'59	47507	11	18°4'90	21°9'66	47581	22	23°2'35	25°4'23
47286	11	24°7'71	5°7'68	47360	9	6°8'50	11°7'09	47434	18	6°1'06	17°3'31	47508	16	18°9'35	21°7'00				
47287	15	0°1'70	6°2'15	47361*	27	7°1'10	11°8'50	47435	32	8°0'68	17°8'30	47509	10	19°6'23	21°1'57				
47288	15	5°2'42	6°8'89	47362	13	19°2'30	11°2'75	47436	18	9°5'00	17°3'52	47510	12	21°9'45	21°2'35				
47289*	40	6°6'99	6°3'50	47363*	20	21°0'99	11°7'11	47437	12	15°9'15	17°7'68	47511	12	22°7'49	21°7'53				
47290	10	6°8'29	6°2'06	47364	12	21°6'70	11°7'55	47438	13	16°2'51	17°2'61	47512	21	1°9'80	22°0'40				
47291	17	8°1'23	6°9'01	47365	12	21°7'21	11°2'18	47439	13	18°2'48	17°6'42	47513	15	4°4'10	22°5'43				
47292	15	9°3'90	6°9'59	47366*	22	22°2'16	11°8'02	47440	12	19°3'13	17°7'41	47514	14	5°9'40	22°1'49				
47293*	60	9°9'41	6°6'70	47367	10	24°1'26	11°1'25	47441	30	22°8'66	17°7'42	47515*	36	6°9'61	22°0'56				
47294	15	10°4'66	6°3'71	47368	10	24°9'31	11°1'03	47442	12	23°8'35	17°8'92	47516	20	7°4'25	22°9'70				
47295	12	10°9'10	6°8'65	47369	9	25°2'91	11°7'91	47443	12	24°1'91	17°0'44	47517	11	7°9'36	22°2'79				
47296	17	11°8'19	6°0'43	47370*	30	25°4'10	11°5'90	47444	13	25°8'89	17°3'95	47518	10	8°2'25	22°8'94				
47297*	36	15°3'64	6°4'80	47371	8	1°1'44	12°7'31	47445	13	0°5'05	18°1'86	47519	19	8°6'75	22°8'95				
47298	11	15°7'30	6°1'11	47372	9	2°9'50	12°5'73	47446	13	6°3'40	18°2'49	47520	12	8°7'34	22°7'10				
47299*	40	16°6'44	6°5'28	47373	12	5°2'69	12°5'77	47447	12	6°9'02	18°3'30	47521*	77	10°7'25	22°7'47				
47300*	60	17°0'23	6°3'47	47374	12	6°5'21	12°9'30	47448	12	8°3'41	18°7'62	47522	15	11°3'72	22°7'85				
47301	10	24°1'16	6°9'87	47375	9	6°5'80	12°5'89	47449	9	9°5'62	18°6'85	47523	21	14°6'92	22°0'21				
47302	13	3°6'54	7°5'05	47376	12	9°9'35	12°2'13	47450	11	9°8'79	18°9'86	47524	13	16°2'10	22°7'89				
47303	13	8°3'90	7°1'83	47377	13	10°5'52	12°2'35	47451	15	10°4'01	18°9'26	47525	11	17°4'70	22°3'94				
47304	13	9°2'79	7°4'86	47378	29	13°4'20	12°5'09	47452	10	11°4'00	18°0'93	47526	11	17°9'51	22°6'83				
47305*	25	14°1'10	7°1'33	47379	22	16°5'73	12°0'94	47453	13	11°4'77	18°7'47	47527	8	18°5'13	22°9'50				
47306	17	14°4'58	7°8'36	47380	17	17°0'35	12°5'19	47454	10	11°6'98	18°0'96	47528	20	22°7'41	22°1'21				
47307*	31	20°9'31	7°7'40	47381	12	24°1'38	12°3'51	47455	17	14°2'47	18°7'72	47529	12	22°9'87	22°2'01				
47308	8	21°6'42	7°1'87	47382	12	24°7'40	12°6'87	47456	11	14°8'45	18°4'45	47530	28	23°4'88	22°3'94				
47309	11	22°6'25	7°3'98	47383	8	24°7'71	12°8'97	47457	22	17°4'59	18°4'74	47531	20	23°6'96	22°5'29				
47310	8	24°0'35	7°3'61	47384	13	1°9'65	13°4'11	47458	18	18°2'27	18°7'25	47532	16	24°4'55	22°0'22				
47311	30	24°7'13	7°1'15	47385	13	4°5'04	13°4'15	47459	9	21°1'63	18°9'02	47533	14	2°1'76	23°3'23				
47312	10	25°5'32	7°6'16	47386	12	5°0'25	13°6'65	47460	15	23°5'10	18°7'01	47534	27	3°4'71	23°2'46				
47313	12	2°1'27	8°0'98	47387	20	13°0'60	13°1'25	47461	19	23°6'45	18°5'59	47535*	19	5°4'13	23°1'34				
47314	13	3°8'18	8°7'39	47388*	37	14°6'10	13°7'09	47462	13	0°1'08	19°1'04	47536	11	5°6'76	23°2'50				
47315	22	4°7'05	8°9'46	47389*	20	17°8'39	13°8'64	47463	12	5°3'32	19°2'86	47537	13	6°1'95	23°7'68				
47316	10	5°2'34	8°3'65	47390	12	20°0'90	13°3'73	47464	13	5°6'73	19°6'35	47538*	29	13°9'22	23°9'70				
47317*	32	9°0'41	8°5'58	47391	22	20°2'31	13°8'68	47465	16	6°7'83	19°9'64	47539	17	16°1'75	23°1'14				
47318	13	10°5'75	8°4'92	47392	10	20°5'76	13°8'93	47466	13	10°9'15	19°7'46	47540	12	16°4'46	23°7'35				
47319	14	14°4'94	8°7'35	47393	11	20°8'97	13°2'84	47467	12	14°1'99	19°6'80	47541	11	16°9'70	23°9'58				
47320	22	15°2'00	8°3'88	47394*															

47623	12	4°949	1'729	47697	20	15°069	4°096	47771	12	19°048	9°731	47845	12	18°914	14°422	47919	8	24°624	19°835
47624*	20	4°971	1'753	47698	10	15°421	4°135	47772	11	22°145	9°983	47846	15	19°800	14°418	47920	22	1°507	20°543
47625	12	5°886	1°841	47699*	21	16°368	4°841	47773	8	23°748	9°857	47847	10	22°166	14°310	47921	20	1°511	20°560
47626	11	6°114	1°257	47700	12	16°971	4°645	47774	9	24°679	9°574	47848	10	24°113	14°849	47922	20	2°039	20°821
47627	10	7°472	1°772	47701	13	17°077	4°104	47775	9	24°839	9°398	47849	19	1°466	15°516	47923	11	2°413	20°528
47628	9	10°709	1°750	47702	9	18°971	4°898	47776*	25	0°011	10°733	47850*	24	3°188	15°677	47924	18	3°865	20°091
47629	12	12°203	1°556	47703	10	20°465	4°356	47777	21	1°088	10°815	47851*	20	3°316	15°290	47925	20	4°248	20°741
47630	8	12°426	1°020	47704	9	22°220	4°123	47778	13	1°850	10°176	47852	10	3°519	15°393	47926	10	7°050	20°631
47631	20	12°529	1°347	47705	9	23°062	4°581	47779	12	2°269	10°201	47853	11	3°724	15°979	47927	9	9°285	20°795
47632	9	13°321	1°210	47706	10	25°631	4°895	47780	20	2°831	10°769	47854	10	5°915	15°643	47928	12	10°570	20°915
47633	9	13°642	1°425	47707	11	25°768	4°943	47781	19	3°160	10°111	47855	12	8°942	15°085	47929	12	14°750	20°750
47634	12	15°457	1°301	47708	10	5°595	5°881	47782	10	4°090	10°417	47856	18	9°911	15°020	47930	12	18°342	20°671
47635	11	16°126	1°694	47709	11	6°728	5°465	47783	9	4°459	10°833	47857	12	10°399	15°322	47931	10	18°820	20°036
47636	9	16°220	1°724	47710*	21	8°601	5°615	47784	11	5°677	10°941	47858	11	12°906	15°045	47932	9	19°094	20°023
47637	10	17°595	1°120	47711	9	10°664	5°266	47785	10	7°109	10°853	47859	12	14°338	15°810	47933	12	19°539	20°815
47638	20	18°201	1°700	47712	10	14°324	5°051	47786	13	7°665	10°515	47860*	17	14°460	15°381	47934	13	20°093	20°016
47639	8	21°502	1°528	47713	20	15°102	5°504	47787	9	8°051	10°941	47861*	18	15°012	15°586	47935	12	21°419	20°007
47640	11	22°147	1°136	47714*	12	16°725	5°071	47788	10	8°067	10°360	47862	12	17°696	15°597	47936	10	21°785	20°504
47641	9	22°609	1°894	47715	10	17°883	5°165	47789	9	8°870	10°898	47863	12	20°569	15°281	47937	12	22°242	20°725
47642	11	24°302	1°045	47716	9	18°436	5°679	47790	12	11°422	10°765	47864*	40	21°374	15°535	47938	11	22°370	20°749
47643	12	24°371	1°254	47717	9	19°111	5°859	47791	12	12°067	10°437	47865	10	22°550	15°643	47939	9	22°445	20°988
47644	31	3°086	2°773	47718	8	19°335	5°320	47792*	22	13°860	10°151	47866	9	24°415	15°210	47940*	20	23°781	20°715
47645	12	3°240	2°290	47719	10	19°852	5°041	47793*	20	14°829	10°875	47867	10	3°150	16°483	47941	12	24°558	20°449
47646	13	6°650	2°076	47720	9	20°544	5°842	47794	10	15°021	10°447	47868	9	3°594	16°863	47942	12	2°425	21°007
47647	12	7°841	2°490	47721	18	20°864	5°636	47795*	20	17°212	10°798	47869	10	5°728	16°025	47943	15	2°818	21°892
47648	10	8°740	2°536	47722	9	2°009	6°342	47796	14	0°181	11°271	47870	11	10°215	16°305	47944	8	4°532	21°973
47649	11	9°441	2°210	47723*	26	3°637	6°235	47797	12	0°985	11°233	47871	12	10°623	16°660	47945*	20	4°980	21°188
47650	9	11°951	2°410	47724	10	3°670	6°550	47798*	23	1°474	11°711	47872	13	12°698	16°470	47946	9	5°828	21°558
47651	10	12°236	2°985	47725	10	7°319	6°384	47799	9	2°181	11°741	47873	10	15°994	16°216	47947*	20	7°160	21°746
47652	9	12°759	2°170	47726*	19	8°347	6°459	47800	21	2°672	11°161	47874*	25	17°273	16°749	47948	11	7°474	21°121
47653	10	13°110	2°586	47727	9	9°356	6°208	47801	10	3°480	11°701	47875	9	24°971	16°551	47949	11	8°545	21°336
47654	12	14°529	2°400	47728	10	10°369	6°680	47802	8	3°661	11°179	47876	10	25°835	16°139	47950	9	10°306	21°875
47655	12	15°934	2°666	47729	9	11°350	6°353	47803	9	4°620	11°494	47877	16	2°065	17°506	47951	9	10°795	21°916
47656	9	20°171	2°196	47730	14	12°282	6°577	47804	10	5°336	11°315	47878	11	2°818	17°962	47952	10	11°571	21°427
47657	10	21°420	2°920	47731	10	17°150	6°098	47805	9	6°681	11°896	47879	9	4°294	17°491	47953	13	14°941	21°899
47658	8	21°481	2°797	47732	11	17°883	6°449	47806	11	8°085	11°834	47880	19	4°365	17°840	47954	20	15°398	21°165
47659	9	21°770	2°804	47733	8	19°790	6°027	47807	12	15°433	11°860	47881	10	5°414	17°580	47955	13	17°093	21°170
47660	10	22°867	2°394	47734	12	19°798	6°411	47808	9	25°043	11°811	47882	9	6°070	17°532	47956	9	17°582	21°388
47661*	14	22°898	2°986	47735	12	21°213	6°516	47809	12	25°200	11°776	47883	8	8°270	17°501	47957	11	19°397	21°960
47662	10	24°314	2°945	47736	10	21°499	6°762	47810	10	25°689	11°007	47884	10	9°486	17°142	47958	10	20°435	21°966
47663	20	24°657	2°938	47737	10	22°313	6°865	47811	12	0°219	12°496	47885	9	9°812	17°858	47959*	31	22°368	21°060
47664	9	25°410	2°510	47738	25	0°691	7°251	47812	13	0°827	12°821	47886	13	17°195	17°254	47960	9	22°565	21°017
47665*	30	25°657	2°511	47739	12	2°286	7°069	47813	9	7°703	12°647	47887	11	17°376	17°048	47961	12	23°860	21°913
47666	13	2°815	3°180	47740	12	3°351	7°496	47814	11	9°066	12°946	47888*	21	18°945	17°288	47962	9	23°932	21°565
47667	12	4°030	3°989	47741	10	5°020	7°292	47815	10	10°051	12°358	47889	10	21°801	17°559	47963	17	0°720	22°161
47668	12	6°556	3°145	47742	11	5°407	7°872	47816	12	11°209	12°621	47890	8	24°311	17°139	47964	16	2°284	22°755
47669	21	12°085	3°416	47743	10	5°807	7°060	47817	12	19°890	12°910	47891	9	24°740	17°939	47965*	20	7°226	22°275
47670	10	14°843	3°032	47744	12	7°775	7°302	47818	12	20°397	12°047	47892	9	24°874	17°859	47966	10	8°207	22°217
47671	11	15°340	3°919	47745	10	8°396	7°116	47819	10	23°875	12°836	47893	10	25°306	17°293	47967	8	11°920	22°826
47672	10	16°650	3°945	47746	12	8°549	7°744	47820	9	24°589	12°088	47894	12	25°422	17°065	47968	9	15°085	22°930
47673	12	18°965	3°197	47747	11	9°411	7°753	47821	12	24°718	12°606	47895	15	0°020	18°041	47969	11	15°152	22°586
47674	7	21°389	3°051	47748*	12	9°720	7°791	47822	12	24°783	12°177	47896	18	2°771	18°519	47970*	30	15°604	22°723
47675	8	21°770	3°275	47749	20	15°819	7°202	47823	15	3°685	13°074	47897	17	3°030	18°279	47971	11	16°960	22°415
47676*	14	23°261	3°404	47750	10	19°194	7°861	47824	8	4°417	13°171	47898	12	3°705	18°175	47972	11	21°502	22°151
47677	9	23°492	3°942	47751	19	21°674	7°195	47825	10	4°533	13°243	47899	9	9°150	18°405	47973	20	24°395	22°034
47678	8	23°942	3°075	47752	9	23°129	7°231	47826	9	6°550	13°586	47900*	20	9°820	18°010	47974	11	24°659	22°056
47679	10	25°081	3°285	47753	10	23°829	7°981	47827	12	7°983	13°390	47901	13	13°011	18°926	47975	9	24°784	22°970
47680	12	25°376	3°683	47754	17	0°179	8°236	47828	10	8°757	13°131	47902*	44	13°389	18°027	47976	19	1°140	23°847
47681*	60	0°934	4°452	47755*	20	3°724	8°935	47829	19	11°529	13°348	47903	11	17°814	18°175	47977	22	3°180	23°205
47682*	46	1°120	4°712	47756	10	3°792	8°892	47830	18	12°046	13°080	47904	11	19°017	18°851	47978*	41	3°500	23°409
47683	20	2°397	4°715	47757	16	4°551	8°878	47831	12	13°480	13°870	47905	12	22°445	18°100	47979	11	4°178	23°315
47684	11	4°960	4°973	47758	10	6°175	8°691	47832	10	20°769	13°239	47906	11	24°600	18°414	47980	8	4°571	23°980
47685	20	5°191	4°700	47759	12	9°990	8°855	47833	10	21°430	13°592	47907	10	25°269	18°011	47981*</			

47993	15	23°545	23°083	48121	21	23°639	0°631	48195	24	4°426	4°179	48269	25	22°798	7°722	48343	37	1°710	11°021
47994	12	23°550	23°133	48122	30	24°916	0°377	48196	21	6°552	4°339	48270	36	3°151	8°034	48344	28	2°756	11°501
47995	9	23°937	23°210	48123*	18	3°390	1°309	48197	20	7°185	4°180	48271	26	5°060	8°968	48345	20	3°382	11°088
47996	18	2°026	24°539	48124	30	5°801	1°399	48198	23	7°249	4°133	48272	22	5°697	8°233	48346*	32	3°507	11°485
47997	12	3°369	24°030	48125	21	8°369	1°711	48199	20	8°866	4°304	48273	21	8°236	8°982	48347	19	3°518	11°121
47998	10	5°551	24°801	48126*	42	8°436	1°168	48200	19	9°508	4°420	48274	19	9°050	8°438	48348	21	3°561	11°110
47999*	20	8°840	24°935	48127	20	9°011	1°791	48201	21	11°310	4°572	48275	33	10°434	8°042	48349	22	3°643	11°787
48000	9	9°702	24°997	48128	24	9°044	1°361	48202	20	11°713	4°775	48276	23	13°687	8°920	48350	19	9°691	11°315
48001	8	11°368	24°419	48129	20	9°244	1°411	48203	21	12°666	4°238	48277*	22	14°716	8°969	48351	40	10°545	11°262
48002	8	16°065	24°862	48130	21	11°175	1°237	48204	20	13°104	4°700	48278*	20	15°896	8°536	48352*	35	11°787	11°818
48003*	22	19°869	24°673	48131	22	12°122	1°841	48205*	46	14°947	4°688	48279*	26	17°615	8°177	48353	22	12°398	11°411
48004	11	22°892	24°944	48132*	38	12°429	1°050	48206	20	17°036	4°704	48280*	29	18°171	8°528	48354*	44	12°748	11°962
48005	9	23°733	24°101	48133	32	13°765	1°422	48207	17	18°169	4°910	48281	21	18°844	8°826	48355	25	15°519	11°812
48006	11	24°205	24°608	48134	24	14°780	1°515	48208	20	18°980	4°475	48282	21	19°377	8°554	48356	28	18°841	11°559
48007	12	3°961	25°706	48135	13	17°718	1°128	48209	21	19°702	4°965	48283	19	20°067	8°506	48357*	42	19°716	11°183
48008	17	3°979	25°430	48136	21	17°723	1°422	48210	20	20°502	4°334	48284*	38	21°454	8°757	48358	14	19°761	11°034
48009	15	4°895	25°972	48137*	34	18°037	1°563	48211	15	23°436	4°942	48285*	40	21°468	8°256	48359	25	22°281	11°421
48010	9	6°980	25°134	48138	19	18°946	1°312	48212	14	24°533	4°993	48286	26	21°496	8°294	48360	17	22°508	11°161
48011	14	7°419	25°337	48139	23	19°854	1°784	48213	20	24°655	4°245	48287	12	22°067	8°906	48361	20	24°143	11°913
48012	10	7°633	25°777	48140	20	20°850	1°652	48214	31	1°053	5°063	48288	12	23°282	8°571	48362	17	24°423	11°457
48013*	12	9°228	25°072	48141	19	20°950	1°642	48215*	42	3°622	5°652	48289	15	23°480	8°893	48363	31	24°888	11°721
48014	12	15°341	25°435	48142	18	21°534	1°405	48216	15	3°748	5°614	48290	24	25°453	8°244	48364	20	25°069	11°857
48015	8	15°600	25°387	48143	32	22°276	1°794	48217	19	5°107	5°022	48291	28	0°078	9°720	48365	30	0°046	12°234
48016	9	16°182	25°166	48144	16	23°797	1°667	48218	20	5°909	5°690	48292	22	0°230	9°538	48366	40	0°188	12°750
48017	17	17°094	25°080	48145	39	25°676	1°217	48219	20	7°128	5°977	48293	22	2°146	9°558	48367	41	0°242	12°319
48018	10	17°692	25°715	48146	33	25°917	1°295	48220	15	7°186	5°863	48294	22	4°374	9°814	48368	18	3°298	12°173
48019	18	17°760	25°461	48147	32	0°638	2°643	48221	16	8°648	5°485	48295	20	4°634	9°953	48369	23	4°190	12°874
48020	10	19°973	25°172	48148*	73	0°884	2°636	48222	24	9°356	5°746	48296	29	6°030	9°496	48370	15	4°571	12°065
48021	17	21°721	25°980	48149	37	2°939	2°533	48223	20	12°388	5°060	48297	13	8°301	9°338	48371	18	6°836	12°856
48022	20	22°550	25°526	48150*	44	3°218	2°031	48224	29	13°195	5°235	48298	14	9°704	9°740	48372	17	7°108	12°436
48023	11	25°598	25°140	48151	38	3°276	2°857	48225	21	18°839	5°806	48299	20	10°379	9°961	48373*	41	8°037	12°123
				48152	24	3°922	2°009	48226	17	20°425	5°183	48300	31	10°568	9°602	48374	33	10°033	12°759
				48153	20	4°869	2°739	48227	20	20°889	5°178	48301	21	11°125	9°124	48375*	44	12°167	12°953
				48154	15	6°096	2°204	48228	15	21°856	5°494	48302	30	14°928	9°831	48376	34	14°749	12°979
				48155	20	6°286	2°316	48229	13	22°103	5°506	48303	16	15°293	9°827	48377	17	16°157	12°388
				48156	19	6°741	2°792	48230	30	22°110	5°263	48304	17	16°134	9°232	48378	28	17°255	12°325
				48157	20	6°929	2°928	48231	21	24°014	5°648	48305	20	19°446	9°138	48379	14	19°908	12°943
				48158	21	10°222	2°147	48232	19	25°503	5°372	48306	21	19°705	9°477	48380	12	22°026	12°453
				48159	19	11°915	2°624	48233	15	25°669	5°142	48307	20	19°894	9°794	48381	18	23°289	12°669
				48160	18	12°969	2°399	48234	22	3°087	6°868	48308	29	20°085	9°466	48382*	60	23°896	12°864
				48161	22	17°876	2°282	48235*	26	3°438	6°378	48309	20	20°101	9°198	48383	25	0°404	13°929
				48162	18	18°463	2°000	48236	18	4°725	6°139	48310	22	20°439	9°508	48384*	29	3°867	13°690
				48163	19	19°198	2°567	48237	24	5°575	6°999	48311	17	20°722	9°103	48385	22	3°964	13°338
				48164	24	19°368	2°927	48238	23	5°832	6°233	48312	21	20°845	9°491	48386	20	4°278	13°718
				48165	13	21°782	2°574	48239	39	7°608	6°066	48313	18	21°864	9°523	48387	18	6°759	13°343
				48166	19	21°920	2°337	48240	20	8°399	6°983	48314	19	21°951	9°074	48388	20	9°391	13°197
				48167	14	22°992	2°524	48241	13	9°532	6°437	48315	16	21°987	9°961	48389	22	9°756	13°673
				48168	17	24°776	2°867	48242	25	9°533	6°922	48316	18	23°026	9°897	48390	21	10°119	13°398
				48169	34	0°326	3°423	48243	21	10°488	6°044	48317	25	24°892	9°842	48391	18	10°214	13°695
				48170	39	0°634	3°814	48244	18	11°091	6°118	48318	19	25°661	9°045	48392	23	12°533	13°299
				48171	39	1°512	3°932	48245	19	13°379	6°891	48319	23	1°538	10°358	48393	27	13°067	13°522
				48172	21	3°152	3°453	48246	20	13°881	6°516	48320	22	1°776	10°525	48394*	65	18°739	13°211
				48173	20	4°675	3°401	48247	22	13°908	6°381	48321	28	2°174	10°916	48395	31	19°034	13°512
				48174	11	4°727	3°836	48248*	31	14°588	6°772	48322*	41	2°920	10°011	48396	22	19°127	13°914
				48175	13	5°469	3°909	48249	33	15°630	6°172	48323	21	2°942	10°183	48397*	43	22°136	13°008
				48176	26	7°509	3°883	48250	27	19°611	6°566	48324	19	3°975	10°309	48398	20	22°257	13°672
				48177	22	8°079	3°682	48251	24	20°895	6°405	48325	27	9°149	10°578	48399	31	23°804	13°419
				48178	16	8°542	3°136	48252	19	20°965	6°163	48326*	51	9°220	10°182	48400	29	24°103	13°278
				48179	22	8°603	3°936	48253	25	23°661	6°040	48327	24	10°546	10°852	48401	23	4°081	14°637
				48180	23	8°847	3°331	48254*	49	24°167	6°014	48328	26	11°524	10°784	48402	22	4°829	14°103
				48181	21	10°254	3°782	48255	21	24°879	6°065	48329	23	12°708	10°573	48403*	34	5°594	14°185
				48182	20	10°548	3°106	48256	29	1°579	7°254	48330*	41	14°726	10°353	48404	13	8°777	14°629
				48183	19	12°158	3°382	48257	25	3°573	7°535	48331*	41	15°418	10°710	48405	24	9°063	14°564
				48184	20	12°443	3°601	48258*	43	8°886	7°631	48332*	60	15°836	10°861	48406	12	10°085	14°653
				48185	30	17°160	3°782	48259	29	9°815	7°871	48333	22	16°484	10°917	48407	22	10°561	14°854
				48186	19	17°310	3°521	48260	21	13°226	7°601	48334	40	17°778	10°274	48408	21	15°029	14°466
				48187	21	20°100	3°042	48261	18	15°714	7°159	48335	22	22°031	10°036	48409*	49		

48417	16	7°708	15°115	48491	20	3°916	18°167	48565	18	18°291	21°606	48639	28	12°409	25°662	48739	11	12°116	1°697
48418*	41	8°021	15°544	48492	15	4°425	18°898	48566	21	18°745	21°268	48640	23	15°461	25°718	48740	14	13°013	1°535
48419	25	8°037	15°627	48493	32	8°694	18°862	48567	19	20°592	21°460	48641	20	15°672	25°225	48741	13	13°510	1°614
48420	22	10°779	15°568	48494	22	10°568	18°405	48568	53	0°093	22°186	48642	22	16°599	25°592	48742	12	14°094	1°326
48421	27	11°730	15°499	48495	18	10°879	18°242	48569	38	0°354	22°201	48643	25	16°659	25°413	48743	20	14°680	1°719
48422*	37	13°795	15°297	48496	15	11°079	18°641	48570	26	0°962	22°233	48644	15	17°850	25°175	48744	11	15°393	1°784
48423	20	14°032	15°374	48497	29	11°276	18°115	48571	30	1°946	22°699	48645	21	21°366	25°832	48745	22	15°964	1°640
48424	23	14°994	15°145	48498	25	13°979	18°268	48572	23	2°311	22°474	48646	16	22°208	25°508	48746	20	16°700	1°386
48425*	40	16°043	15°596	48499	21	14°603	18°200	48573*	42	4°700	22°815	48647	41	22°632	25°198	48747	22	17°869	1°023
48426	19	16°048	15°113	48500	20	18°521	18°583	48574*	32	8°062	22°911	48648	19	22°722	25°750	48748	17	17°883	1°582
48427*	63	20°000	15°327	48501	20	18°934	18°313	48575	18	8°695	22°538	48649	23	22°892	25°873	48749	25	19°397	1°411
48428	24	24°422	15°951	48502	14	22°646	18°201	48576	17	9°734	22°897	48650	32	23°454	25°655	48750	20	20°354	1°267
48429	17	24°578	15°362	48503	28	22°799	18°119	48577*	41	9°843	22°183	48651*	31	24°545	25°679	48751	14	21°698	1°084
48430	19	24°904	15°694	48504	18	25°267	18°681	48578	18	10°206	22°542					48752	28	21°865	1°805
48431	15	25°085	15°914	48505	20	25°485	18°029	48579	19	13°708	22°582					48753	17	22°464	1°722
48432	21	25°135	15°464	48506	23	25°969	18°596	48580	19	17°257	22°597					48754	25	22°572	1°798
48433	25	25°384	15°157	48507	30	2°007	19°219	48581	22	18°321	22°732					48755	19	2°044	2°481
48434	23	0°536	16°689	48508	23	2°920	19°160	48582	17	20°253	22°452					48756*	40	5°640	2°948
48435	24	1°392	16°254	48509	26	4°767	19°526	48583*	48	20°828	22°912					48757	19	5°711	2°677
48436	30	1°813	16°529	48510	25	5°701	19°881	48584	20	21°428	22°351					48758	20	6°138	2°356
48437	36	2°392	16°938	48511	15	6°008	19°527	48585	21	22°785	22°667					48759	16	6°336	2°721
48438	22	2°449	16°552	48512*	30	6°440	19°867	48586*	35	1°997	23°340					48760	26	7°102	2°798
48439	23	2°833	16°011	48513*	67	7°238	19°490	48587	34	4°102	23°591					48761	19	7°296	2°465
48440	30	3°023	16°695	48514	20	7°680	19°179	48588	34	5°636	23°227					48762	30	7°665	2°535
48441	20	3°063	16°106	48515	18	9°550	19°684	48589*	28	6°976	23°194					48763	19	8°243	2°407
48442	19	3°719	16°255	48516	37	10°331	19°117	48590*	48	8°046	23°172					48764	21	8°907	2°058
48443*	34	4°872	16°518	48517	15	10°603	19°492	48591	15	9°087	23°405					48765	20	9°096	2°657
48444*	25	4°877	16°416	48518	16	11°250	19°338	48592	20	9°159	23°807					48766	24	9°721	2°274
48445	18	5°155	16°706	48519	14	11°850	19°332	48593	18	10°671	23°064					48767	23	9°854	2°830
48446	20	5°540	16°838	48520	20	13°009	19°051	48594	13	11°226	23°733					48768	22	10°239	2°500
48447	14	5°799	16°574	48521	15	13°398	19°921	48595*	28	11°955	23°911					48769	15	10°917	2°672
48448	11	6°023	16°831	48522	18	16°031	19°051	48596	14	12°333	23°060					48770	20	12°515	2°847
48449*	26	6°782	16°479	48523	22	16°859	19°807	48597*	22	14°966	23°221					48771	27	14°496	2°384
48450	27	6°849	16°189	48524	21	18°204	19°178	48598	15	15°154	23°374					48772	18	15°973	2°309
48451	24	6°968	16°652	48525	20	19°653	19°563	48599	16	15°555	23°039					48773	22	16°267	2°854
48452	21	9°089	16°573	48526	11	19°802	19°588	48600*	29	16°346	23°885					48774	14	17°062	2°163
48453	20	10°061	16°770	48527	20	20°037	19°270	48601	19	16°545	23°758					48775	23	17°658	2°508
48454	28	10°409	16°477	48528*	42	20°182	19°458	48602*	30	18°039	23°214					48776	20	18°058	2°679
48455	23	10°992	16°394	48529	13	20°330	19°922	48603	14	19°573	23°059					48777	14	18°296	2°348
48456	28	11°917	16°240	48530	23	22°239	19°074	48604	29	21°365	23°351					48778	23	20°268	2°190
48457	22	13°774	16°400	48531	19	23°125	19°133	48605	20	22°849	23°129					48779*	57	20°675	2°579
48458	33	14°134	16°821	48532	33	24°096	19°805	48606	34	23°049	23°148					48780*	33	20°830	2°439
48459	24	15°708	16°986	48533	15	24°287	19°029	48607	20	25°487	23°479					48781	28	21°278	2°156
48460	22	19°436	16°143	48534	20	25°679	19°460	48608*	53	5°377	24°659					48782	14	21°535	2°046
48461	19	21°345	16°889	48535	36	0°217	20°596	48609	19	5°916	24°891					48783	20	22°497	2°838
48462	20	23°599	16°948	48536	27	2°404	20°140	48610	24	6°171	24°429					48784	12	24°075	2°231
48463	24	0°888	17°421	48537	23	3°193	20°162	48611	20	7°455	24°878					48785	19	24°769	2°253
48464	36	1°000	17°189	48538	28	4°997	20°715	48612	28	8°291	24°982					48786	20	25°238	2°652
48465	21	3°134	17°627	48539	19	5°376	20°954	48613	28	8°437	24°729					48787	20	25°914	2°976
48466	20	6°302	17°779	48540	13	5°748	20°157	48614	19	8°469	24°812					48788	21	0°891	3°977
48467	11	7°577	17°179	48541	20	5°766	20°847	48615	21	8°515	24°854					48789	22	0°981	3°000
48468	22	7°685	17°370	48542	15	6°370	20°139	48616	20	9°249	24°176					48790	22	1°471	3°723
48469	18	7°900	17°658	48543	25	7°948	20°313	48617	30	9°498	24°943					48791	27	4°080	3°784
48470	22	8°838	17°252	48544*	50	8°245	20°279	48618	16	10°171	24°687					48792	41	5°340	3°727
48471	20	9°189	17°782	48545*	40	13°512	20°796	48619	19	14°269	24°518					48793	14	5°696	3°032
48472	20	10°776	17°238	48546	23	15°852	20°426	48620	22	18°016	24°042					48794	30	5°700	3°723
48473	21	11°233	17°678	48547*	36	16°733	20°549	48621	15	19°675	24°747					48795	14	7°355	3°656
48474	20	13°553	17°938	48548	23	17°036	20°715	48622	20	21°470	24°925					48796	30	10°985	3°985
48475*	54	15°652	17°754	48549	25	17°364	20°607	48623	14	22°057	24°025					48797	12	12°626	3°586
48476	19	15°800	17°357	48550	23	21°858	20°511	48624	17	22°258	24°993					48798	15	15°267	3°794
48477	25	18°384	17°277	48551	35	3°186	21°478	48625	26	23°789	24°525					48799	20	15°273	3°255
48478	29	19°499	17°643	48552	38	3°360	21°829	48626	20	24°011	24°856					48800	13	16°571	3°284
48479	13	21°532	17°793	48553	26	3°783	21°642	48627	21	24°985	24°758					48801	18	18°863	3°669
48480	22	22°301	17°253	48554	33	4°210	21°129	48628	29	25°244	24°086					48802	11	19°138	3°342
48481	24	22°426	17°640	48555	18	5°679	21°294	48629	38	3°091	25°272					48803	20	19°365	3°342
48482	14	22°590	17°146	48556	19	5°834	21°398	48630	32	4°223	25°066					48804	12	19°660	3°894
48483	22	24°805	17°718	48557	20	8°896	21°756	48631	16	5°487	25°472					48805	38	20°695	3°523
48484	23	25°886	17°307	48558	42	9°630	21°395	48632	31	5°899	25°733					48806*	27	21°266	3°747
48485	18	25°980	17°292	48559	18	9°703	21°602												

48813	24	0°878	4°382	48887*	63	0°415	6°155	48961	14	0°154	9°895	49035	20	20°539	11°844	49109	19	25°326	14°977
48814	12	2°863	4°857	48888	31	1°126	6°197	48962	27	1°187	9°976	49036	18	20°646	11°183	49110	25	25°401	14°618
48815	12	5°583	4°986	48889	30	4°658	6°550	48963	21	1°949	9°168	49037	14	23°285	11°818	49111	13	25°912	14°955
48816	20	5°766	4°548	48890	15	5°265	6°385	48964	12	2°458	9°342	49038	13	23°455	11°033	49112	20	0°572	15°117
48817	13	6°313	4°653	48891	18	6°293	6°637	48965*	36	4°299	9°428	49039	20	23°717	11°960	49113	16	0°922	15°500
48818	21	6°590	4°894	48892	21	8°579	6°209	48966	19	4°711	9°003	49040	14	24°794	11°086	49114	22	0°946	15°504
48819	20	7°751	4°473	48893*	40	8°713	6°449	48967	11	4°976	9°454	49041	23	0°466	12°055	49115	24	1°277	15°827
48820	21	8°376	4°292	48894	21	10°326	6°345	48968	22	8°478	9°126	49042*	40	2°827	12°030	49116	26	1°504	15°594
48821	18	8°389	4°300	48895	19	13°658	6°276	48969	12	9°010	9°631	49043	15	7°405	12°149	49117	31	1°751	15°282
48822	20	9°811	4°123	48896	15	13°670	6°192	48970	19	10°623	9°897	49044	20	8°574	12°431	49118	16	2°105	15°067
48823	20	10°425	4°036	48897	21	14°044	6°609	48971	29	11°507	9°459	49045	22	10°986	12°800	49119	29	3°413	15°534
48824	19	10°697	4°133	48898	20	16°367	6°867	48972	21	12°085	9°911	49046	39	11°491	12°756	49120*	30	4°790	15°667
48825	19	10°825	4°398	48899	18	16°602	6°677	48973*	40	13°462	9°248	49047	21	11°840	12°654	49121*	32	5°901	15°578
48826	21	11°143	4°134	48900	34	17°030	6°862	48974	29	13°872	9°519	49048	22	12°372	12°142	49122	21	10°861	15°335
48827	20	13°439	4°417	48901	30	18°303	6°095	48975	30	16°627	9°278	49049	30	13°316	12°391	49123*	41	12°253	15°980
48828	21	14°627	4°220	48902	22	18°447	6°335	48976	15	17°508	9°488	49050	21	16°656	12°241	49124	20	15°727	15°415
48829	17	14°806	4°176	48903	20	19°507	6°786	48977	21	17°671	9°242	49051	31	18°194	12°630	49125	19	15°800	15°488
48830	17	15°135	4°898	48904	14	21°326	6°667	48978	15	18°082	9°346	49052	13	20°968	12°852	49126	22	16°203	15°617
48831	20	15°283	4°762	48905	24	21°765	6°246	48979	34	19°549	9°610	49053	21	22°294	12°660	49127	27	16°205	15°867
48832	29	15°933	4°776	48906	21	23°686	6°575	48980	27	19°716	9°060	49054	16	22°632	12°005	49128	25	17°685	15°036
48833	15	16°208	4°970	48907	20	4°600	7°952	48981	14	20°684	9°380	49055	15	23°634	12°200	49129	20	17°875	15°009
48834	20	16°411	4°353	48908	16	4°774	7°180	48982*	28	21°822	9°283	49056	21	24°513	12°967	49130	19	18°377	15°201
48835	15	16°460	4°840	48909	15	6°595	7°331	48983	17	22°726	9°486	49057	13	24°955	12°554	49131	17	18°766	15°731
48836	14	16°656	4°697	48910	17	7°765	7°024	48984	16	24°800	9°629	49058	20	25°418	12°723	49132	30	21°855	15°573
48837*	40	17°524	4°344	48911	18	8°662	7°378	48985	18	0°576	10°979	49059	11	25°847	12°345	49133	14	23°614	15°250
48838	19	18°587	4°554	48912	30	8°794	7°071	48986	27	0°741	10°969	49060	41	0°147	13°564	49134	15	23°674	15°011
48839	24	19°034	4°510	48913	21	8°955	7°463	48987	20	0°784	10°703	49061*	70	0°234	13°009	49135	17	23°895	15°226
48840	18	19°426	4°921	48914	33	9°071	7°522	48988	20	1°594	10°276	49062	36	0°445	13°419	49136	12	25°315	15°131
48841	11	19°540	4°703	48915	16	10°104	7°510	48989	32	2°018	10°259	49063	13	2°836	13°473	49137	30	0°800	16°087
48842	30	19°549	4°851	48916	19	10°905	7°932	48990	19	2°641	10°212	49064	18	4°105	13°023	49138	13	0°847	16°862
48843	13	20°630	4°363	48917	30	11°560	7°326	48991	12	2°967	10°832	49065	15	4°856	13°231	49139	20	1°460	16°040
48844	13	20°645	4°313	48918	16	11°696	7°906	48992*	30	4°048	10°011	49066	17	4°885	13°556	49140	19	3°976	16°235
48845	40	20°675	4°802	48919	21	13°348	7°447	48993	13	4°494	10°744	49067	21	5°219	13°375	49141	20	5°401	16°675
48846	15	20°710	4°775	48920	18	14°439	7°225	48994	17	5°909	10°147	49068*	40	5°435	13°849	49142	20	6°120	16°614
48847	18	21°443	4°015	48921	22	14°658	7°936	48995	20	6°212	10°574	49069	20	5°462	13°036	49143	15	6°464	16°267
48848	14	23°014	4°024	48922	20	16°034	7°397	48996	20	7°009	10°592	49070	14	7°020	13°362	49144	31	7°907	16°719
48849	15	24°028	4°917	48923	20	18°355	7°217	48997	18	8°474	10°983	49071	20	7°426	13°434	49145*	39	7°966	16°714
48850	33	0°252	5°794	48924	20	18°878	7°797	48998	30	9°954	10°601	49072	13	7°926	13°251	49146*	29	8°034	16°474
48851	23	0°766	5°131	48925	15	18°907	7°751	48999	17	11°294	10°696	49073	20	11°694	13°618	49147	19	13°265	16°450
48852	16	1°744	5°496	48926	15	20°026	7°848	49000	20	13°906	10°789	49074	19	11°729	13°320	49148*	36	14°423	16°529
48853	18	1°904	5°266	48927	13	21°353	7°788	49001	30	14°117	10°346	49075	20	13°183	13°468	49149	29	16°482	16°987
48854	20	2°802	5°502	48928	15	21°612	7°621	49002	19	15°570	10°228	49076	21	13°427	13°307	49150	20	17°915	16°515
48855*	36	3°356	5°055	48929	14	21°895	7°795	49003	30	15°619	10°026	49077	22	15°312	13°015	49151	20	18°535	16°397
48856	20	3°573	5°023	48930	20	22°066	7°369	49004	17	17°225	10°027	49078	20	15°610	13°631	49152	22	18°623	16°467
48857	30	3°956	5°294	48931	23	23°723	7°152	49005	20	17°400	10°263	49079	21	19°108	13°515	49153	20	20°104	16°490
48858	20	4°129	5°685	48932	19	24°138	7°060	49006	33	17°465	10°490	49080	16	19°581	13°500	49154	22	20°238	16°292
48859	25	5°007	5°408	48933	29	1°732	8°371	49007	25	17°692	10°492	49081	19	21°515	13°951	49155	20	20°948	16°337
48860	16	5°049	5°227	48934	30	3°730	8°443	49008	18	17°742	10°086	49082	14	21°959	13°813	49156	15	21°466	16°646
48861	17	5°125	5°744	48935	17	3°755	8°150	49009	27	18°605	10°788	49083	15	25°312	13°495	49157	20	21°482	16°819
48862	19	5°817	5°247	48936	12	4°723	8°239	49010	29	19°203	10°628	49084	26	1°190	14°722	49158	18	21°749	16°401
48863	30	5°916	5°112	48937*	30	7°505	8°754	49011	23	19°785	10°576	49085	16	3°093	14°435	49159	20	23°120	16°196
48864*	49	6°465	5°434	48938	30	8°324	8°926	49012	17	19°947	10°409	49086*	38	3°331	14°797	49160	13	23°526	16°278
48865	22	6°961	5°026	48939	22	10°174	8°006	49013*	36	23°228	10°514	49087	27	3°353	14°785	49161	27	24°062	16°916
48866*	40	7°157	5°207	48940	20	11°435	8°168	49014	20	24°108	10°375	49088	19	5°309	14°518	49162	20	24°674	16°898
48867	13	8°681	5°557	48941	22	11°916	8°903	49015	14	25°277	10°586	49089	17	5°400	14°383	49163	21	25°812	16°919
48868	15	11°217	5°541	48942	11	12°122	8°951	49016	19	25°915	10°008	49090	23	5°707	14°742	49164	15	0°783	17°174
48869	20	11°368	5°444	48943*	60	13°046	8°186	49017	20	0°744	11°597	49091	20	6°072	14°863	49165	28	1°207	17°853
48870	21	11°852	5°628	48944	21	13°363	8°642	49018	22	0°870	11°852	49092	19	6°585	14°229	49166	27	2°282	17°428
48871	15	11°898	5°915	48945*	52	13°626	8°076	49019	34	1°208	11°855	49093	13	6°897	14°408	49167	20	2°377	17°411
48872	20	12°579	5°331	48946	21	13°850	8°325	49020	22	1°394	11°989	49094	19	7°626	14°816	49168	20	2°904	17°382
48873*	30	13°438	5°127	48947	26	14°327	8°837	49021	30	3°622	11°517	49095	23	10°162	14°270	49169	19	3°228	17°786
48874	17	14°024	5°728	48948	40	15°835	8°054	49022	27	3°779	11°658	49096	27	11°326	14°850	49170	14	4°238	17°079
48875	16	14°828	5°253	48949*	50	17°356	8°266	49023*	32	3°789	11°825</								

49183	14	20°9'15"	17°18'9"	49257	30	2°52'5"	21°9'37"	49331	35	0°27'7"	24°6'72"	49457	5	8°49'3"	1°9'90"
49184	20	21°6'77"	17°9'70"	49258	19	3°38'0"	21°5'79"	49332	28	0°50'0"	24°9'97"	49458	4	8°82'5"	1°7'84"
49185	34	22°1'88"	17°53'2"	49259	27	3°54'0"	21°0'18"	49333	21	1°47'6"	24°8'92"	49459*	22	8°89'6"	1°62'0"
49186	19	23°0'54"	17°8'76"	49260	30	5°00'5"	21°5'48"	49334	30	1°72'7"	24°2'14"	49460	4	9°13'1"	1°64'1"
49187	20	24°3'62"	17°52'22"	49261	18	5°9'45"	21°0'96"	49335	22	4°37'0"	24°9'41"	49461	4	9°53'3"	1°25'1"
49188	22	1°6'77"	18°8'12"	49262	20	6°36'8"	21°5'43"	49336	26	6°41'3"	24°3'93"	49462	5	10°7'14"	1°46'0"
49189	24	1°8'88"	18°15'3"	49263	13	10°44'5"	21°4'11"	49337	22	6°8'12"	24°4'72"	49463	4	11°6'85"	1°82'8"
49190	23	2°3'81"	18°7'15"	49264*	31	10°9'02"	21°4'81"	49338	17	9°0'19"	24°0'78"	49464	6	12°22'7"	1°11'1"
49191	31	3°25'9"	18°6'58"	49265*	40	12°8'41"	21°8'87"	49339*	41	9°07'0"	24°1'17"	49465	5	12°94'6"	1°142"
49192	13	5°27'5"	18°4'57"	49266	15	13°47'1"	21°3'46"	49340	20	9°24'5"	24°3'98"	49466	11	13°54'8"	1°91'1"
49193	16	5°76'6"	18°1'00"	49267	22	15°09'3"	21°7'57"	49341	19	9°64'2"	24°6'44"	49467	14	14°27'9"	1°16'5"
49194	19	7°9'07"	18°32'6"	49268	16	15°24'5"	21°6'57"	49342*	50	10°09'2"	24°2'05"	49468	9	15°88'8"	1°06'8"
49195	13	9°9'90"	18°37'2"	49269	28	17°48'5"	21°1'47"	49343	20	10°26'6"	24°7'56"	49469	7	16°35'3"	1°72'7"
49196	13	10°4'16"	18°46'0"	49270	13	18°65'0"	21°0'39"	49344	18	10°46'8"	24°8'74"	49470	4	16°99'5"	1°89'8"
49197	31	13°0'35"	18°40'6"	49271	30	19°52'1"	21°7'22"	49345	17	11°09'9"	24°44'2"	49471	5	17°09'4"	1°55'3"
49198	17	13°24'4"	18°51'7"	49272	20	20°07'8"	21°2'08"	49346	17	11°82'0"	24°9'02"	49472	14	17°46'1"	1°68'6"
49199	22	13°25'0"	18°50'0"	49273	29	20°15'0"	21°2'94"	49347	20	11°88'3"	24°8'38"	49473*	30	17°76'3"	1°88'1"
49200	14	14°49'9"	18°50'6"	49274	11	20°19'5"	21°8'97"	49348	16	12°97'1"	24°0'89"	49474	6	18°37'9"	1°102"
49201	40	17°6'06"	18°33'0"	49275	20	20°88'5"	21°7'56"	49349	20	13°02'0"	24°6'42"	49475	12	19°06'0"	1°88'5"
49202	20	19°8'36"	18°03'3"	49276	19	21°20'1"	21°4'18"	49350	21	14°24'7"	24°9'24"	49476	6	19°40'7"	1°954"
49203	24	20°1'04"	18°08'0"	49277	16	22°59'7"	21°3'23"	49351	13	14°40'1"	24°7'61"	49477	4	19°80'5"	1°019"
49204	22	20°8'16"	18°17'1"	49278	18	23°40'0"	21°5'92"	49352	16	15°08'0"	24°9'50"	49478	8	20°10'9"	1°57'1"
49205	12	21°47'0"	18°8'34"	49279*	34	23°54'2"	21°44'9"	49353	20	15°41'7"	24°6'26"	49479	4	20°42'9"	1°110"
49206	17	22°22'7"	18°05'8"	49280*	40	2°68'4"	22°2'36"	49354	19	19°40'4"	24°7'95"	49480	5	20°52'3"	1°053"
49207	50	0°52'5"	19°94'7"	49281	21	3°13'7"	22°48'0"	49355	15	19°59'8"	24°74'9"	49481	10	20°54'6"	1°811"
49208	19	2°1'00"	19°58'0"	49282	19	4°88'3"	22°04'7"	49356	21	22°02'6"	24°95'3"	49482	4	20°65'9"	1°321"
49209	34	2°56'7"	19°984"	49283	20	5°25'5"	22°7'98"	49357	18	22°12'1"	24°11'7"	49483	11	20°814"	1°955"
49210	26	2°584"	19°227"	49284	21	7°57'5"	22°20'5"	49358	15	22°381"	24°421"	49484	14	21°881"	1°799"
49211	12	5°143"	19°586"	49285	13	8°390"	22°22'5"	49359	29	23°026"	24°630"	49485*	37	22°010"	1°894"
49212	27	7°063"	19°161"	49286	20	10°394"	22°661"	49360	16	24°151"	24°503"	49486	5	22°126"	1°967"
49213*	47	9°322"	19°332"	49287	14	10°590"	22°193"	49361	20	24°844"	24°240"	49487	12	22°963"	1°596"
49214	25	10°642"	19°748"	49288	24	10°736"	22°666"	49362*	40	1°045"	25°815"	49488	8	23°314"	1°985"
49215	20	14°535"	19°517"	49289	15	13°944"	22°153"	49363	21	5°866"	25°009"	49489	4	23°521"	1°257"
49216	18	15°372"	19°273"	49290	22	14°474"	22°041"	49364	29	9°208"	25°182"	49490	6	23°760"	1°578"
49217	30	15°680"	19°347"	49291	19	14°521"	22°940"	49365	20	10°889"	25°239"	49491	8	24°348"	1°820"
49218	24	18°915"	19°584"	49292	20	15°091"	22°876"	49366	29	11°224"	25°900"	49492	10	25°130"	1°519"
49219	20	18°990"	19°617"	49293	23	15°235"	22°698"	49367	21	11°413"	25°575"	49493	6	25°894"	1°126"
49220	24	19°199"	19°331"	49294	21	15°400"	22°994"	49368	19	12°465"	25°913"	49494	4	0°809"	2°143"
49221	20	21°250"	19°645"	49295*	41	16°456"	22°157"	49369	19	13°034"	25°387"	49495	4	1°117"	2°068"
49222	12	21°545"	19°359"	49296	20	17°088"	22°553"	49370	16	13°247"	25°469"	49496	10	1°807"	2°078"
49223	12	23°379"	19°771"	49297	18	17°725"	22°074"	49371	18	13°490"	25°299"	49497	9	2°287"	2°469"
49224	12	24°217"	19°416"	49298	14	19°008"	22°133"	49372	20	14°425"	25°523"	49498	9	2°967"	2°781"
49225	25	2°551"	20°034"	49299	15	19°194"	22°948"	49373	18	14°611"	25°178"	49499	6	2°992"	2°815"
49226	20	2°558"	20°698"	49300	19	20°196"	22°604"	49374	15	14°821"	25°588"	49500	6	3°643"	2°431"
49227	33	2°739"	20°091"	49301	30	20°263"	22°666"	49375	17	15°370"	25°724"	49501	4	3°652"	2°247"
49228	27	2°883"	20°851"	49302	20	21°186"	22°657"	49376*	39	15°473"	25°821"	49502	10	3°923"	2°779"
49229*	42	3°203"	20°219"	49303	19	21°685"	22°403"	49377	14	16°753"	25°683"	49503	5	4°279"	2°299"
49230	15	3°332"	20°125"	49304	17	22°147"	22°863"	49378	20	18°067"	25°032"	49504	5	4°641"	2°102"
49231	23	3°382"	20°179"	49305	12	23°105"	22°127"	49379	18	18°808"	25°256"	49505	10	5°177"	2°430"
49232	22	3°662"	20°010"	49306	20	23°896"	22°922"	49380	19	19°227"	25°202"	49506	13	5°404"	2°164"
49233	24	6°416"	20°296"	49307*	43	24°664"	22°035"	49381	20	19°737"	25°974"	49507	7	5°500"	2°645"
49234	15	7°184"	20°300"	49308	20	24°704"	22°600"	49382	21	20°143"	25°628"	49508	4	6°705"	2°205"
49235	13	7°466"	20°917"	49309	20	25°189"	22°758"	49383	19	20°882"	25°675"	49509	5	6°784"	2°287"
49236	20	7°694"	20°938"	49310	21	1°963"	23°603"	49384	23	22°744"	25°620"	49510	4	6°816"	2°551"
49237	30	8°275"	20°380"	49311	20	5°836"	23°791"	49385	20	24°617"	25°783"	49511	7	7°251"	2°805"
49238	19	8°567"	20°248"	49312	15	6°911"	23°363"	49386	21	25°995"	25°525"	49512	4	7°976"	2°547"
49239*	44	9°302"	20°248"	49313*	50	8°279"	23°455"					49513	14	8°227"	2°427"
49240	14	10°667"	20°026"	49314	34	8°670"	23°883"					49514	4	8°281"	2°678"
49241	21	11°427"	20°688"	49315	16	8°893"	23°573"					49515	12	8°340"	2°840"
49242	20	13°355"	20°140"	49316	13	8°938"	23°459"					49516	6	9°082"	2°953"
49243	24	13°546"	20°519"	49317	16	9°066"	23°591"					49517	13	9°986"	2°641"
49244	19	16°280"	20°813"	49318	18	11°478"	23°666"					49518	4	10°280"	2°013"
49245	27	17°056"	20°765"	49319	14	11°829"	23°458"					49519*	28	10°610"	2°641"
49246	23	18°180"	20°089"	49320	15	12°507"	23°931"					49520	5	10°979"	2°370"
49247	20	19°322"	20°240"	49321	15	13°115"	23°529"					49521	5	12°095"	2°359"
49248	13	19°393"	20°515"	49322	28	14°525"	23°657"					49522	6	12°269"	2°282"
49249*	61	19°464"	20°874"	49323	19	15°955"	23°697"					49523	5	13°150"	2°870"
49250	12	20°254"	20°235"	49324	15	19°347"	23°002"					49524	9	13°845"	2°039"
49251*	50	20°577"	20°695"	49325	20	20°527"	23°743"					49525	7	14°108"	2°475"
49252	21	21°217"	20°432"	49326	27	22°688"	23°335"					49526	8	14°823"	2°192"
49253	20	23°916"	20°611"	49327	25	23°134"	23°165"					49527	8	14°841"	2°121"
49254	26	24°908"	20°929"	49328	18	23°514"	23°098"					49528	9	15°395"	2°716"
49255	19	25°809"	20°397"	49329	19	24°115"	23°946"					49529	5	15°633"	2°608"
49256	40	25°870"	20°521"	49330	31	24°949"	23°053"					49530	5	16°310"	2°811"

R. A. 18^h 54^m

Plate 2551; 1907 June 19.

Provisional Constants.

A	B	C
-000061	+00162	+4454

D	E	F
-00156	-00042	-2839

Mag. = 15.3 - 1.25 $\sqrt{d}$

No.	d	x	y
49401	8	0°011	0°786
49402	4	0°785	0°060
49403	7	1°405	0°728
49404	12	3°395	0°255
49405	5	4°395	0°616
49406*	21	5°190	0°190
49407	9	5°300	0°865
49408	11	5°669	0°555
49409	8	5°750	0°211
49410	6	7°214	0°300
49411	11	7°827	0°214
49412	8	8°198	0°976
49413	10	8°405	0°826
49414*	15	8°849	0°929
49415	12	9°174	0°750
49416	5	9°388	0°299
49417	6	9°737	0°475
49418	11	10°948	0°926
49419	4	11°341	0°760
49420	5	11°694	0°838
49421	4	12°377	0°063
49422	22	12°400	0°810
49423	4	12°467	0°877
49424	4	13°294	0°890
49425	5	13°310	0°704
49426	11	14°371	0°691
49427	4	14°929	0°678
49428	6	14°990	0°211
49429	6	14°992	0°090
49430	7	16°629	0°914
49431	4	18°278	0°513
49432	13	20°537	0°160
49433*	36	20°890	0°121
49434	9	21°264	0°419
49435	12	21°421	0°211
49436	15	21°715	0°882
49437	5	21°739	0°371
49438	4	22°155	0°660
49439	10	22°281	0°920
49440	5	22°960	0°981
49441	11	23°300	0°773
49442	5	24°619	0°349
49443	4	24°768	0°331
49444	5	24°913	0°330
49445	5	25°712	0°921
49446	4	2°362	1°446
49447	5	2°552	1°094
49448	5	2°632	1°215
49449	4	3°147	1°836
49450	11	3°853	1°738
49451	11	4°578	1°675
49452	4	6°272	1°639
49453	8	7°405	1°832
49454	4	7°610	1°366
49455	4	7°678	1°381
49456*	18	7°990	1°439

49531	5	16.618	2.804	49605	4	19.112	3.584	49679	4	23.221	4.054	49753	11	4.608	6.631	49827	6	6.882	7.432
49532	4	16.926	2.258	49606	6	19.256	3.130	49680	9	23.466	4.606	49754	4	4.989	6.779	49828	8	7.041	7.659
49533	6	17.145	2.499	49607	4	20.226	3.466	49681*	21	23.620	4.381	49755	6	5.150	6.638	49829	9	7.997	7.154
49534	4	17.272	2.635	49608	5	20.601	3.799	49682	4	24.162	4.455	49756	4	5.184	6.330	49830	13	8.145	7.920
49535	5	17.606	2.210	49609	5	22.393	3.171	49683	4	24.271	4.161	49757	7	5.425	6.745	49831	8	9.646	7.521
49536	4	17.799	2.468	49610*	23	22.815	3.710	49684	5	24.800	4.539	49758	4	5.600	6.923	49832	5	9.851	7.887
49537	4	17.893	2.719	49611	4	23.084	3.805	49685	8	25.137	4.992	49759	9	6.489	6.881	49833*	20	10.201	7.041
49538	11	18.635	2.290	49612	5	23.315	3.656	49686	5	25.498	4.301	49760	12	7.325	6.935	49834	6	10.313	7.554
49539	4	19.194	2.620	49613	5	23.585	3.532	49687	12	0.024	5.612	49761	7	7.682	6.042	49835	4	10.441	7.827
49540	5	19.653	2.038	49614	6	24.600	3.344	49688	7	0.274	5.206	49762	7	8.442	6.155	49836	12	11.334	7.040
49541	18	20.040	2.260	49615	4	25.322	3.545	49689	5	1.696	5.314	49763	4	8.559	6.776	49837	13	11.696	7.570
49542	8	20.380	2.714	49616	6	1.112	4.754	49690	9	3.626	5.784	49764	4	8.740	6.586	49838*	15	12.202	7.269
49543	7	20.541	2.079	49617	6	1.879	4.916	49691	5	3.945	5.512	49765	4	8.952	6.010	49839	8	12.484	7.109
49544	11	20.702	2.721	49618	14	2.730	4.899	49692	5	4.130	5.914	49766	12	9.221	6.391	49840	11	12.647	7.867
49545*	16	20.830	2.876	49619	4	2.947	4.327	49693	9	4.358	5.105	49767	6	9.889	6.466	49841	4	12.803	7.742
49546	14	21.044	2.942	49620	12	3.415	4.771	49694	4	4.600	5.067	49768	10	9.938	6.444	49842	4	13.209	7.727
49547	8	21.708	2.061	49621	7	3.828	4.370	49695	4	4.773	5.691	49769	5	10.335	6.890	49843*	27	14.308	7.691
49548	4	22.058	2.606	49622	15	4.131	4.243	49696	4	6.139	5.969	49770	6	10.446	6.928	49844	6	14.572	7.844
49549	11	22.421	2.378	49623	10	4.246	4.719	49697	11	6.416	5.172	49771	7	10.976	6.535	49845	4	15.580	7.485
49550*	17	22.876	2.629	49624	5	4.276	4.095	49698	8	6.437	5.877	49772	8	11.285	6.232	49846	10	14.619	7.191
49551*	22	23.791	2.609	49625	4	4.451	4.380	49699	5	6.544	5.384	49773	8	11.353	6.840	49847	4	15.114	7.481
49552	12	23.806	2.590	49626	9	4.516	4.811	49700	7	6.633	5.507	49774	11	11.906	6.595	49848	4	15.508	7.029
49553	4	24.125	2.153	49627	7	4.799	4.798	49701	7	6.704	5.092	49775	9	11.986	6.388	49849	11	16.521	7.679
49554	8	24.294	2.584	49628	6	4.896	4.514	49702	19	6.731	5.090	49776	9	12.197	6.273	49850	6	16.551	7.471
49555	4	24.807	2.685	49629	5	5.112	4.159	49703	8	7.961	5.433	49777	9	12.271	6.014	49851	12	17.693	7.997
49556	12	25.761	2.163	49630	7	5.634	4.300	49704	6	8.017	5.391	49778	6	12.453	6.141	49852	4	18.373	7.427
49557	11	0.061	3.835	49631	7	6.067	4.225	49705	14	8.667	5.873	49779	4	12.628	6.652	49853	4	18.451	7.481
49558	4	0.083	3.878	49632	5	6.317	4.354	49706	8	9.467	5.526	49780	10	13.586	6.304	49854	14	18.472	7.024
49559	4	0.110	3.633	49633	8	6.327	4.178	49707	16	10.749	5.916	49781	8	13.628	6.460	49855	7	19.761	7.968
49560	4	0.279	3.380	49634	10	6.676	4.217	49708	9	10.858	5.784	49782	10	13.784	6.406	49856	5	19.908	7.089
49561	11	0.304	3.044	49635	6	6.771	4.071	49709	6	11.559	5.601	49783	7	13.967	6.291	49857	6	20.036	7.004
49562	10	0.788	3.661	49636	4	6.837	4.810	49710	7	11.895	5.203	49784	4	15.171	6.414	49858	4	20.410	7.060
49563	5	1.180	3.299	49637	7	7.742	4.869	49711	5	12.264	5.874	49785	8	15.392	6.651	49859	11	20.918	7.581
49564	4	2.152	3.530	49638	6	7.829	4.071	49712	17	13.184	5.484	49786	4	15.869	6.726	49860	8	21.566	7.864
49565	4	3.282	3.171	49639	5	7.854	4.693	49713	12	13.312	5.661	49787	11	16.247	6.643	49861	7	21.733	7.639
49566	4	3.558	3.071	49640	13	8.182	4.885	49714	13	13.936	5.239	49788	5	16.301	6.201	49862	6	22.508	7.196
49567	11	4.211	3.120	49641	21	8.429	4.626	49715	11	14.561	5.677	49789*	14	17.730	6.041	49863	7	24.604	7.325
49568	5	4.935	3.687	49642	5	8.451	4.074	49716	4	15.587	5.483	49790	6	18.036	6.037	49864	5	24.968	7.372
49569	9	6.038	3.916	49643	4	9.160	4.786	49717	8	15.986	5.934	49791	5	18.050	6.738	49865	8	25.035	7.869
49570	13	6.125	3.931	49644	11	9.578	4.002	49718	12	16.114	5.909	49792	7	18.106	6.252	49866	9	25.070	7.246
49571	6	6.188	3.449	49645	5	9.909	4.320	49719	8	16.346	5.924	49793	5	19.001	6.711	49867	4	25.916	7.432
49572	8	6.365	3.570	49646	8	10.024	4.316	49720*	30	16.364	5.001	49794	6	19.203	6.292	49868	10	25.929	7.675
49573	4	7.126	3.820	49647	11	10.212	4.288	49721	5	16.366	5.527	49795*	28	19.650	6.749	49869	7	0.177	8.065
49574	15	7.189	3.727	49648	13	10.700	4.459	49722	10	16.828	5.271	49796	7	19.725	6.051	49870	14	0.534	8.136
49575	8	7.686	3.956	49649	7	10.785	4.285	49723	9	16.969	5.172	49797	7	19.811	6.661	49871	7	0.577	8.288
49576	4	7.938	3.215	49650	6	10.883	4.943	49724	5	17.165	5.537	49798	10	20.747	6.588	49872	5	0.690	8.959
49577	21	7.951	3.777	49651	7	11.312	4.745	49725	6	17.211	5.719	49799	5	21.441	6.354	49873	9	0.864	8.465
49578	9	9.271	3.662	49652	4	11.651	4.840	49726	5	17.519	5.508	49800	11	21.731	6.400	49874	5	1.184	8.953
49579	12	9.288	3.970	49653	6	12.571	4.064	49727	4	18.495	5.086	49801	5	21.739	6.970	49875	10	2.252	8.533
49580	10	9.578	3.999	49654	5	12.904	4.539	49728	7	18.622	5.650	49802	12	21.867	6.217	49876	5	2.786	8.071
49581	8	10.149	3.860	49655	6	13.641	4.845	49729	8	19.218	5.687	49803	4	22.653	6.098	49877	9	3.127	8.561
49582	16	10.503	3.999	49656	5	14.389	4.527	49730	5	19.327	5.742	49804	7	22.882	6.831	49878	6	3.459	8.090
49583	5	10.798	3.268	49657	9	14.971	4.821	49731	6	19.438	5.221	49805	7	23.020	6.489	49879	4	3.636	8.751
49584	6	10.800	3.735	49658	4	15.280	4.775	49732	4	19.510	5.666	49806	4	23.409	6.985	49880	11	3.676	8.290
49585	6	10.973	3.979	49659	8	15.377	4.563	49733	6	19.686	5.590	49807	8	23.478	6.335	49881	4	4.311	8.550
49586	10	11.225	3.534	49660	8	15.569	4.802	49734	4	20.382	5.766	49808	4	23.589	6.419	49882	5	4.467	8.657
49587	4	11.572	3.528	49661	6	16.293	4.111	49735	17	20.500	5.835	49809	12	23.658	6.930	49883	13	5.322	8.330
49588	9	12.343	3.246	49662	6	17.769	4.033	49736	12	20.644	5.647	49810	4	23.714	6.203	49884	15	5.482	8.534
49589	5	12.492	3.329	49663	5	18.240	4.519	49737	5	21.112	5.051	49811	4	23.846	6.941	49885	8	6.016	8.344
49590	6	13.110	3.178	49664	7	18.332	4.003	49738	5	21.139	5.695	49812	10	23.890	6.365	49886	4	6.023	8.977
49591	8	14.353	3.268	49665	6	18.894	4.123	49739	4	21.228	5.940	49813	12	23.899	6.253	49887*	20	6.119	8.095
49592	4	14.396	3.885	49666	6	18.927	4.632	49740	7	22.537	5.554	49814	6	24.623	6.836	49888*	25	6.155	8.660
49593	4	15.262	3.074	49667	5	19.221	4.081	49741	6	23.016	5.233	49815	16	24.715	6.450	49889	6	6.177	8.154
49594	4	15.535	3.304	49668	12	19.309	4.120	49742	7	23.716	5.575	49816	5	24.774	6.982	49890	11	6.930	8.967
49595	6	15.626	3.915	49669	5	19.323	4.481	49743	5	24.296	5								

49901	5	12°528	8°067	49975	4	16°690	9°435	50049	9	11°897	10°284	50123	5	16°661	11°438	50197	4	23°429	12°390
49902	16	13°336	8°921	49976	12	16°916	9°491	50050	8	11°925	10°294	50124	6	17°018	11°196	50198	4	0°316	13°464
49903	4	13°763	8°624	49977	5	17°238	9°569	50051	9	12°409	10°295	50125	13	17°634	11°386	50199	5	0°431	13°615
49904*	26	14°144	8°197	49978	4	17°318	9°524	50052	4	12°733	10°845	50126	4	19°335	11°797	50200	5	1°426	13°408
49905*	23	14°188	8°567	49979	10	17°635	9°659	50053	5	12°845	10°061	50127	12	19°336	11°636	50201	9	2°534	13°309
49906	4	14°349	8°412	49980	14	17°675	9°363	50054	6	13°292	10°069	50128	12	19°973	11°461	50202	4	3°626	13°149
49907	4	14°511	8°371	49981	5	17°903	9°688	50055	7	13°628	10°029	50129	6	20°011	11°876	50203	9	3°807	13°362
49908	11	14°536	8°339	49982	5	18°358	9°884	50056	5	14°532	10°740	50130	7	21°238	11°177	50204	10	4°386	13°776
49909	6	14°952	8°540	49983	11	18°850	9°179	50057	5	15°230	10°319	50131	4	22°534	11°526	50205	4	4°725	13°942
49910	5	14°969	8°154	49984	4	19°131	9°721	50058	4	15°668	10°466	50132	15	23°208	11°758	50206	7	4°844	13°401
49911*	22	15°211	8°480	49985	4	19°300	9°428	50059	19	16°059	10°395	50133	4	23°521	11°991	50207	6	5°038	13°698
49912	10	15°371	8°062	49986	5	19°931	9°043	50060	4	16°526	10°361	50134	4	24°218	11°536	50208	9	5°270	13°584
49913	7	15°630	8°527	49987	5	20°017	9°385	50061	4	16°915	10°755	50135	12	25°546	11°530	50209	4	5°414	13°600
49914	5	16°761	8°557	49988	4	20°098	9°475	50062	21	18°463	10°584	50136	7	25°591	11°165	50210	6	5°543	13°818
49915	15	16°880	8°739	49989	6	20°169	9°206	50063	5	18°797	10°996	50137	13	25°926	11°926	50211	5	6°036	13°800
49916	4	17°477	8°381	49990	4	21°292	9°539	50064	11	19°749	10°921	50138	6	0°429	12°601	50212	15	7°560	13°785
49917	17	17°697	8°515	49991	7	21°379	9°232	50065	7	20°482	10°731	50139	4	0°550	12°767	50213	5	7°781	13°009
49918	6	18°574	8°801	49992	5	22°051	9°097	50066	4	21°464	10°536	50140	7	0°835	12°045	50214	7	8°036	13°825
49919	11	18°665	8°447	49993	4	22°242	9°826	50067	7	22°439	10°026	50141	8	1°337	12°293	50215	6	8°383	13°866
49920	6	18°880	8°696	49994	11	22°439	9°228	50068	6	22°830	10°149	50142	5	1°601	12°194	50216	6	8°802	13°125
49921	8	20°804	8°564	49995	4	23°573	9°073	50069	4	22°836	10°248	50143	4	1°650	12°331	50217*	41	9°935	13°487
49922	9	21°355	8°614	49996	11	24°029	9°723	50070	6	23°338	10°761	50144	12	1°729	12°794	50218	5	10°604	13°060
49923	4	22°236	8°744	49997	4	24°140	9°979	50071	11	23°490	10°187	50145	4	1°752	12°411	50219	6	10°824	13°259
49924	4	22°495	8°303	49998	10	24°620	9°506	50072	7	23°886	10°286	50146	5	1°810	12°135	50220	4	10°902	13°714
49925	4	22°896	8°984	49999	9	24°731	9°371	50073	4	24°198	10°300	50147	6	2°087	12°186	50221	7	12°118	13°817
49926	10	23°445	8°589	50000	6	25°064	9°938	50074*	15	24°393	10°998	50148	8	2°163	12°377	50222	7	13°531	13°371
49927	11	24°770	8°430	50001	5	25°147	9°143	50075	4	24°452	10°610	50149	11	2°632	12°538	50223*	14	13°532	13°092
49928*	23	24°815	8°583	50002	6	25°406	9°586	50076	6	24°461	10°076	50150	5	3°054	12°154	50224	6	13°670	13°296
49929*	27	24°855	8°701	50003	20	0°405	10°364	50077	12	24°676	10°805	50151	7	3°347	12°741	50225*	40	13°752	13°007
49930	4	24°950	8°571	50004	8	0°640	10°880	50078*	20	24°917	10°537	50152	10	4°120	12°845	50226	12	13°966	13°352
49931	12	24°969	8°130	50005	11	1°286	10°211	50079	9	25°033	10°619	50153	11	4°590	12°158	50227	4	14°488	13°910
49932	7	25°091	8°808	50006	5	1°937	10°232	50080	4	25°083	10°384	50154	10	5°452	12°686	50228	7	14°940	13°914
49933	6	25°211	8°340	50007	6	1°978	10°909	50081*	14	25°709	10°955	50155	5	6°184	12°887	50229	4	15°136	13°012
49934	6	25°608	8°102	50008	7	2°455	10°406	50082	10	0°483	11°666	50156	10	6°768	12°043	50230	6	15°245	13°885
49935	5	0°751	9°792	50009	4	2°516	10°850	50083	4	0°533	11°974	50157	4	7°223	12°772	50231	11	15°816	13°421
49936	9	1°962	9°455	50010	5	3°322	10°764	50084	4	0°771	11°609	50158	7	8°409	12°660	50232	5	16°034	13°858
49937	10	3°084	9°815	50011*	49	3°497	10°167	50085	11	0°916	11°802	50159	13	8°705	12°555	50233	4	16°736	13°457
49938	5	3°253	9°332	50012	10	3°686	10°051	50086	5	1°682	11°326	50160	4	9°535	12°577	50234	4	17°779	13°040
49939	14	4°135	9°633	50013	4	3°839	10°659	50087	4	1°878	11°369	50161	4	9°896	12°785	50235	13	17°804	13°089
49940	10	4°776	9°664	50014	4	4°159	10°302	50088	5	3°629	11°220	50162	6	10°200	12°620	50236	4	18°366	13°219
49941	16	4°922	9°146	50015	11	4°232	10°785	50089	18	3°915	11°853	50163	5	10°620	12°389	50237	13	18°385	13°160
49942*	20	5°350	9°923	50016	5	4°375	10°076	50090	9	4°037	11°140	50164	13	10°665	12°443	50238	4	18°426	13°316
49943	8	5°387	9°743	50017	9	4°466	10°072	50091	4	4°817	11°739	50165	5	11°003	12°927	50239	8	18°600	13°509
49944	7	5°816	9°452	50018	8	4°477	10°078	50092	6	5°147	11°465	50166	4	11°571	12°073	50240	4	18°923	13°599
49945	9	8°154	9°586	50019	6	4°560	10°169	50093	4	5°184	11°370	50167	8	12°265	12°921	50241	5	19°452	13°650
49946	7	8°199	9°815	50020	4	4°809	10°504	50094	7	5°208	11°672	50168	14	12°920	12°610	50242	5	19°528	13°795
49947	5	8°370	9°008	50021	4	5°069	10°196	50095	5	5°284	11°017	50169	4	12°952	12°011	50243	4	19°755	13°079
49948	4	8°381	9°213	50022	14	5°187	10°885	50096	10	5°396	11°650	50170	7	13°330	12°760	50244	8	20°040	13°611
49949	4	8°407	9°721	50023	5	5°575	10°263	50097	7	5°642	11°465	50171	9	13°460	12°472	50245	4	20°054	13°264
49950	12	8°619	9°631	50024	10	5°677	10°211	50098	7	5°961	11°995	50172	6	14°659	12°330	50246	4	20°244	13°453
49951	20	8°835	9°018	50025	14	6°264	10°182	50099	8	6°020	11°893	50173	5	14°738	12°540	50247	4	20°444	13°235
49952	4	9°829	9°842	50026	8	6°643	10°851	50100	5	6°070	11°181	50174*	15	15°300	12°523	50248	4	22°141	13°407
49953	4	9°973	9°920	50027	4	6°776	10°337	50101	7	6°288	11°058	50175*	17	15°922	12°668	50249	15	22°360	13°216
49954	5	10°199	9°179	50028	4	7°615	10°197	50102	5	6°304	11°196	50176	6	16°296	12°963	50250	4	22°458	13°008
49955	5	10°348	9°502	50029	4	7°884	10°229	50103	8	7°564	11°391	50177	6	16°782	12°039	50251	5	22°525	13°013
49956	4	10°508	9°090	50030	6	8°303	10°568	50104	7	7°606	11°813	50178	5	17°478	12°268	50252	15	23°201	13°890
49957	4	10°565	9°340	50031	5	8°451	10°469	50105	6	7°902	11°417	50179	5	17°704	12°607	50253	4	23°525	13°802
49958	5	10°826	9°284	50032	4	8°583	10°790	50106	5	7°926	11°014	50180	9	17°870	12°064	50254*	19	23°538	13°843
49959	5	10°859	9°563	50033	4	8°614	10°499	50107	7	8°548	11°071	50181	10	18°459	12°561	50255	5	24°066	13°566
49960	12	11°602	9°475	50034	11	8°634	10°554	50108	5	8°636	11°150	50182	7	19°375	12°826	50256*	23	24°866	13°555
49961	4	11°747	9°492	50035	11	9°262	10°163	50109	5	9°135	11°228	50183	4	19°751	12°466	50257	14	25°920	13°045
49962	5	11°919	9°596	50036	9	9°504	10°649	50110	11	9°511	11°663	50184	4	19°819	12°340	50258	11	25°932	13°649
49963	5	12°228	9°857	50037	4	9°574	10°539	50111	4	9°646	11°106	50185	15	20°200	12°956	50259	4	0°600	14°086
49964	4	12°470	9°340	50038	4	9°712	10°298	5011											

50271	5	4°961	14°691	50345	5	8°649	15°175	50419	4	11°848	16°471	50493	9	17°442	17°743	50567	7	22°875	18°122
50272	7	5°165	14°529	50346	5	8°654	15°559	50420	10	11°987	16°338	50494	6	17°585	17°385	50568	5	23°250	18°811
50273	5	5°410	14°525	50347	16	8°671	15°401	50421	5	12°061	16°226	50495	4	17°742	17°719	50569	7	23°635	18°200
50274	10	5°847	14°449	50348	4	8°910	15°012	50422	5	12°155	16°908	50496*	21	18°123	17°605	50570	4	24°210	18°655
50275	4	5°900	14°307	50349	15	9°793	15°068	50423	4	12°271	16°159	50497	4	18°239	17°026	50571	7	25°343	18°761
50276	4	6°461	14°591	50350	11	9°906	15°328	50424	13	12°538	16°320	50498	10	20°245	17°196	50572	4	0°076	19°764
50277	5	6°715	14°813	50351	7	9°939	15°739	50425	6	12°557	16°868	50499	5	20°361	17°133	50573	5	0°708	19°619
50278	4	6°882	14°537	50352	6	10°822	15°588	50426	5	13°493	16°515	50500	18	20°529	17°469	50574	5	1°543	19°248
50279	5	7°202	14°848	50353	11	10°996	15°731	50427	5	13°558	16°031	50501	5	20°934	17°242	50575	4	3°541	19°913
50280	8	7°557	14°411	50354	6	11°115	15°695	50428	11	13°581	16°895	50502	20	20°935	17°891	50576	14	3°575	19°226
50281	7	7°701	14°164	50355	12	11°390	15°204	50429*	20	15°198	16°438	50503	4	21°170	17°307	50577	10	3°713	19°142
50282	4	7°744	14°830	50356	6	11°400	15°436	50430	6	15°477	16°935	50504	4	21°640	17°675	50578	7	3°769	19°248
50283	13	8°105	14°646	50357	4	11°716	15°842	50431	12	16°798	16°619	50505	4	21°821	17°135	50579	4	3°792	19°525
50284	4	8°306	14°578	50358	6	11°757	15°632	50432	4	17°651	16°259	50506	12	21°943	17°379	50580	4	4°039	19°731
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50641	4	4°134	20°476	50715	4	7°427	21°850	50789	9	12°587	22°909	50863	8	17°121	23°210	50937	12	22°004	24°157
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50643	12	4°342	20°517	50717	6	7°695	21°183	50791	7	12°982	22°122	50865	12	18°731	23°011	50939	4	22°785	24°275
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50704*																			

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51358	5	22°155	7°769	51432	11	8°427	9°129	51506	5	22°805	10°587	51580	5	14°604	12°858	51654	5	8°407	14°926
51359	11	22°535	7°435	51433	4	8°555	9°396	51507	7	23°024	10°118	51581	9	14°775	12°530	51655	8	10°340	14°568
51360	16	23°150	7°822	51434	13	8°876	9°283	51508*	22	23°491	10°409	51582	11	18°056	12°244	51656	11	10°546	14°800
51361	9	23°419	7°523	51435	11	9°640	9°734	51509	7	23°876	10°696	51583	8	18°759	12°750	51657	8	11°050	14°402
51362	6	23°991	7°655	51436	5	9°818	9°008	51510	21	23°930	10°882	51584	7	19°446	12°203	51658	4	11°935	14°570
51363	6	24°490	7°049	51437	14	10°352	9°864	51511	14	24°427	10°047	51585	12	19°939	12°369	51659*	17	11°986	14°417
51364	7	24°883	7°793	51438	4	10°976	9°184	51512	5	24°524	10°888	51586	8	20°065	12°427	51660*	15	13°466	14°069
51365	13	25°304	7°987	51439	4	12°861	9°406	51513	5	24°665	10°737	51587	4	20°301	12°613	51661	5	14°780	14°658
51366	10	0°123	8°763	51440	5	12°896	9°652	51514	5	24°714	10°543	51588	12	21°190	12°711	51662	14	15°164	14°734
51367*	25	0°170	8°916	51441	9	13°177	9°557	51515	4	25°080	10°777	51589	8	21°504	12°868	51663	11	15°320	14°256
51368	12	0°315	8°460	51442	10	13°241	9°276	51516*	20	25°474	10°353	51590	16	21°638	12°894	51664	6	16°235	14°457
51369	5	0°375	8°196	51443	9	13°427	9°386	51517	20	25°888	10°079	51591	4	22°105	12°738	51665	5	17°714	14°043
51370	4	0°562	8°665	51444	19	13°725	9°638	51518	12	0°078	11°140	51592	6	22°885	12°955	51666	7	18°118	14°163
51371	8	2°050	8°141	51445	6	14°656	9°605	51519	12	0°964	11°847	51593	17	23°191	12°262	51667	9	18°494	14°532
51372	6	3°179	8°393	51446	9	16°320	9°635	51520*	14	1°114	11°269	51594	5	23°384	12°195	51668	18	18°856	14°086
51373	5	3°180	8°147	51447	6	16°366	9°566	51521	4	1°817	11°684	51595	15	24°507	12°247	51669	11	19°735	14°305
51374	6	3°464	8°893	51448	16	16°627	9°924	51522	7	1°964	11°535	51596	13	24°683	12°315	51670*	26	21°616	14°987
51375	5	3°501	8°909	51449	12	16°938	9°698	51523	11	2°432	11°700	51597	5	25°452	12°014	51671	6	21°935	14°674
51376	4	3°619	8°590	51450	13	17°289	9°538	51524	4	3°089	11°094	51598*	27	0°325	13°887	51672	9	22°427	14°339
51377	6	3°864	8°250	51451	5	17°396	9°545	51525	4	3°736	11°185	51599	14	1°367	13°355	51673	7	22°944	14°122
51378	4	3°975	8°508	51452	8	17°851	9°292	51526	5	5°449	11°200	51600	9	1°391	13°958	51674	10	23°469	14°700
51379	13	4°966	8°596	51453	6	18°115	9°095	51527	5	6°746	11°142	51601	10	1°827	13°773	51675	4	23°725	14°465
51380	4	5°060	8°782	51454	6	18°164	9°361	51528	10	7°045	11°635	51602	20	3°335	13°361	51676	4	23°972	14°430
51381	5	5°488	8°837	51455	9	18°948	9°262	51529	10	8°526	11°192	51603	8	3°766	13°688	51677	5	25°031	14°151
51382	8	6°024	8°074	51456	7	19°025	9°592	51530	9	10°360	11°296	51604	4	3°847	13°875	51678	10	25°081	14°731
51383	14	6°176	8°621	51457	8	19°550	9°763	51531	4	11°230	11°791	51605	5	3°969	13°852	51679	4	25°201	14°260
51384	7	6°762	8°318	51458*	28	20°426	9°565	51532	10	11°925	11°385	51606	8	4°195	13°325	51680	5	25°562	14°508
51385	4	6°862	8°227	51459	4	20°485	9°188	51533	4	12°278	11°334	51607	4	4°326	13°118	51681	10	0°225	15°661
51386	10	7°723	8°570	51460	4	20°664	9°638	51534	5	13°399	11°733	51608	5	4°339	13°320	51682	6	0°334	15°041
51387*	22	7°785	8°206	51461	4	20°935	9°155	51535	8	14°360	11°585	51609	5	4°537	13°154	51683	5	0°862	15°556
51388	8	8°365	8°432	51462	16	21°112	9°100	51536	10	15°792	11°711	51610	14	5°133	13°672	51684*	9	1°035	15°175
51389	4	8°783	8°729	51463	7	21°199	9°763	51537	18	16°976	11°509	51611	10	6°858	13°654	51685	4	1°504	15°101
51390	10	9°440	8°895	51464	7	21°721	9°002	51538	9	17°016	11°163	51612*	47	7°275	13°428	51686*	10	1°608	15°323
51391	8	10°935	8°018	51465	5	22°799	9°824	51539	10	18°510	11°878	51613	10	8°920	13°937	51687	4	1°839	15°170
51392	12	11°351	8°600	51466	5	23°681	9°955	51540	9	18°945	11°260	51614	4	9°149	13°761	51688	10	2°115	15°858
51393	13	11°413	8°149	51467	7	23°745	9°449	51541	5	19°025	11°033	51615	5	10°605	13°256	51689	10	3°249	15°799
51394	8	11°776	8°901	51468	8	23°945	9°705	51542	7	19°496	11°118	51616	9	11°140	13°079	51690	9	3°503	15°422
51395	17	12°347	8°095	51469	7	25°191	9°454	51543	4	19°737	11°544	51617	8	12°841	13°482	51691	4	4°467	15°207
51396*	27	12°375	8°119	51470	4	25°623	9°688	51544	6	20°164	11°860	51618	7	12°855	13°103	51692	5	4°469	15°426
51397*	40	12°586	8°225	51471	4	25°658	9°305	51545	11	20°238	11°004	51619	5	12°909	13°491	51693	4	5°574	15°156
51398	4	12°753	8°200	51472*	23	0°313	10°865	51546	6	20°602	11°378	51620	10	14°262	13°540	51694	9	5°609	15°644
51399	10	14°066	8°753	51473	8	0°432	10°947	51547	5	21°696	11°571	51621	9	14°355	13°100	51695	7	5°647	15°110
51400	6	14°402	8°532	51474	4	0°447	10°267	51548	4	21°798	11°403	51622	6	15°470	13°835	51696	16	6°025	15°462
51401	11	15°254	8°556	51475	7	1°669	10°950	51549	4	21°925	11°634	51623	5	15°674	13°268	51697	4	6°036	15°136
51402	5	16°659	8°148	51476	4	1°680	10°515	51550	5	22°355	11°716	51624	19	15°736	13°421	51698	5	6°104	15°590
51403	6	16°753	8°285	51477	7	2°105	10°466	51551	4	22°437	11°614	51625	5	16°292	13°392	51699	5	6°217	15°990
51404	4	17°414	8°463	51478	13	2°517	10°616	51552	8	22°475	11°285	51626	6	16°759	13°092	51700	23	7°468	15°550
51405	4	18°236	8°755	51479	12	3°090	10°029	51553	22	23°047	11°581	51627	6	17°380	13°376	51701	10	8°362	15°586
51406	4	21°165	8°187	51480	5	3°175	10°415	51554	13	23°624	11°757	51628	15	18°143	13°387	51702	6	9°640	15°956
51407	4	21°374	8°116	51481*	30	3°865	10°093	51555	6	23°816	11°143	51629	5	18°434	13°182	51703	5	9°706	15°959
51408	9	21°645	8°312	51482	4	3°953	10°150	51556	5	24°480	11°461	51630	6	18°623	13°867	51704	4	9°726	15°210
51409	7	21°721	8°999	51483	6	4°120	10°408	51557	5	25°697	11°895	51631	9	20°234	13°196	51705	5	10°175	15°530
51410	10	22°291	8°481	51484	4	11°074	10°285	51558	12	1°350	12°237	51632	13	21°185	13°664	51706	5	10°403	15°115
51411	10	24°030	8°706	51485	5	11°458	10°436	51559	8	2°814	12°572	51633	9	21°711	13°195	51707	14	10°545	15°075
51412	5	24°219	8°015	51486	13	12°550	10°775	51560	6	3°338	12°200	51634	8	21°865	13°909	51708	27	10°704	15°374
51413	4	24°335	8°225	51487	5	13°273	10°470	51561	5	4°254	12°042	51635	4	21°885	13°890	51709	5	10°916	15°525
51414	4	24°382	8°151	51488	14	13°478	10°619	51562	7	5°025	12°186	51636	6	22°296	13°950	51710	6	11°034	15°316
51415	16	25°146	8°765	51489	6	13°980	10°762	51563	4	5°635	12°311	51637	5	23°160	13°504	51711	9	12°027	15°602
51416	12	25°297	8°126	51490*	37	14°367</													

51723	6	16.762	15.669	51797	4	21.754	16.094	51871	5	13.962	18.466	51945	20	25.026	19.309	52019	8	10.551	21.537
51724	7	17.035	15.768	51798	5	21.782	16.797	51872	5	14.035	18.143	51946	8	25.185	19.057	52020	17	11.082	21.571
51725	6	17.156	15.342	51799	4	22.519	16.373	51873	7	14.237	18.120	51947	4	25.693	19.356	52021	17	11.493	21.301
51726	5	17.243	15.210	51800	4	22.847	16.686	51874	12	14.286	18.766	51948	4	0.083	20.122	52022	5	11.859	21.870
51727	6	17.246	15.125	51801	4	23.133	16.209	51875*	35	14.411	18.406	51949	10	0.663	20.896	52023	9	11.876	21.749
51728	8	17.454	15.639	51802*	40	23.528	16.602	51876	8	15.034	18.209	51950	4	1.567	20.332	52024	5	11.885	21.705
51729*	35	17.464	15.929	51803	13	24.226	16.698	51877	5	15.640	18.099	51951	4	1.951	20.435	52025	6	12.073	21.513
51730	6	17.632	15.130	51804	8	24.947	16.994	51878	4	16.363	18.626	51952	5	2.184	20.693	52026	11	12.677	21.403
51731	5	17.837	15.328	51805	4	25.715	16.184	51879	8	16.560	18.720	51953	7	2.397	20.802	52027	4	12.754	21.602
51732	9	19.177	15.476	51806	8	0.973	17.138	51880	6	17.591	18.390	51954	5	3.600	20.390	52028	4	12.777	21.947
51733	4	19.403	15.890	51807	8	1.295	17.208	51881	5	17.844	18.319	51955	10	4.095	20.374	52029	8	13.264	21.866
51734	7	19.540	15.198	51808	7	1.554	17.367	51882	12	18.618	18.099	51956	8	4.100	20.682	52030	12	13.526	21.806
51735	8	20.116	15.797	51809	7	1.810	17.084	51883	6	18.797	18.484	51957	4	4.225	20.411	52031	7	14.207	21.825
51736	6	21.428	15.279	51810	8	2.072	17.275	51884	5	19.304	18.225	51958	4	4.672	20.399	52032	11	15.071	21.866
51737*	30	21.569	15.391	51811	7	2.645	17.609	51885	4	22.586	18.355	51959	5	5.921	20.712	52033	10	16.124	21.065
51738	8	21.620	15.510	51812	4	2.665	17.146	51886	9	23.649	18.180	51960	8	6.225	20.766	52034	7	16.365	21.547
51739	6	22.309	15.769	51813	5	2.702	17.155	51887	10	24.434	18.984	51961	9	7.015	20.778	52035	7	16.780	21.316
51740*	36	22.336	15.138	51814	6	3.105	17.662	51888	18	25.068	18.165	51962	5	7.372	20.740	52036	8	16.978	21.791
51741	9	22.885	15.370	51815	5	3.328	17.754	51889	12	25.308	18.739	51963	7	7.506	20.586	52037	4	17.285	21.048
51742	5	22.896	15.516	51816	4	3.366	17.350	51890	5	25.859	18.469	51964	7	8.620	20.522	52038	7	17.606	21.217
51743	6	22.977	15.974	51817	7	3.418	17.130	51891	6	25.946	18.230	51965	6	8.883	20.346	52039	10	17.914	21.098
51744	5	23.974	15.543	51818	14	6.164	17.765	51892	4	0.166	19.976	51966	7	8.887	20.656	52040	7	17.984	21.954
51745	4	24.575	15.588	51819	5	6.207	17.527	51893	4	0.500	19.609	51967	6	9.465	20.520	52041	7	18.058	21.173
51746	6	24.944	15.787	51820	8	6.511	17.240	51894	13	0.697	19.839	51968*	30	10.033	20.945	52042	8	18.156	21.774
51747	7	25.187	15.800	51821	9	7.372	17.137	51895	4	0.875	19.855	51969	4	10.085	20.230	52043	7	18.277	21.789
51748	5	0.179	16.801	51822	20	7.771	17.785	51896	5	0.905	19.084	51970	10	11.006	20.602	52044	4	18.313	21.006
51749	4	0.562	16.625	51823	6	8.622	17.312	51897	11	1.055	19.320	51971	4	11.346	20.861	52045	5	18.693	21.093
51750*	15	1.866	16.459	51824	11	9.909	17.133	51898	16	1.723	19.026	51972	9	11.368	20.418	52046	8	18.770	21.831
51751	5	2.021	16.335	51825	4	10.094	17.971	51899	7	2.218	19.212	51973	9	12.333	20.206	52047	4	19.186	21.127
51752	4	2.183	16.992	51826	4	10.105	17.512	51900	19	2.284	19.504	51974	5	12.873	20.047	52048	7	19.682	21.329
51753	7	2.275	16.979	51827*	35	10.907	17.809	51901	14	2.863	19.377	51975	6	14.279	20.183	52049	4	19.751	21.572
51754	4	2.394	16.975	51828	10	11.195	17.316	51902	4	2.954	19.707	51976	5	15.061	20.627	52050	12	19.932	21.672
51755	5	2.494	16.087	51829	19	13.307	17.305	51903	10	3.023	19.006	51977	4	15.256	20.931	52051	8	20.040	21.853
51756	8	2.525	16.688	51830	7	13.390	17.517	51904*	27	3.201	19.035	51978	8	15.355	20.033	52052	20	20.499	21.648
51757	5	2.633	16.017	51831	15	13.562	17.422	51905	4	3.226	19.852	51979	7	15.606	20.351	52053	5	22.984	21.859
51758*	36	2.645	16.284	51832*	23	13.754	17.902	51906	11	3.472	19.883	51980	11	15.789	20.226	52054	9	22.985	21.405
51759	7	2.658	16.488	51833	15	13.839	17.325	51907	8	3.795	19.351	51981	8	16.664	20.336	52055	15	23.632	21.200
51760	11	2.741	16.021	51834	4	14.396	17.720	51908	19	4.372	19.803	51982	6	17.655	20.575	52056	5	24.695	21.894
51761	5	3.127	16.406	51835	13	14.534	17.615	51909	9	5.440	19.517	51983*	34	17.909	20.310	52057	4	24.988	21.939
51762	10	3.270	16.821	51836	6	15.525	17.196	51910	11	6.127	19.550	51984	4	18.220	20.160	52058	5	25.126	21.048
51763	19	3.388	16.103	51837	7	15.703	17.441	51911	4	6.356	19.584	51985	10	18.273	20.856	52059	4	25.638	21.405
51764	12	3.582	16.990	51838	14	15.827	17.685	51912	8	6.605	19.650	51986	6	18.316	20.355	52060	9	0.373	22.997
51765	6	4.034	16.460	51839	12	16.920	17.987	51913	4	7.450	19.908	51987	7	18.620	20.679	52061	11	1.410	22.025
51766	7	4.059	16.940	51840	7	17.216	17.293	51914	10	8.540	19.289	51988*	27	19.252	20.383	52062	9	1.597	22.095
51767	5	4.067	16.334	51841	8	17.844	17.688	51915	7	9.038	19.059	51989	6	19.303	20.446	52063	4	2.257	22.801
51768	5	4.128	16.450	51842	15	18.005	17.370	51916	20	9.125	19.692	51990	5	19.619	20.102	52064	5	3.389	22.680
51769	13	5.236	16.504	51843	4	18.185	17.801	51917	6	10.130	19.256	51991	4	19.714	20.791	52065	5	3.485	22.221
51770	4	6.724	16.801	51844	12	18.776	17.735	51918	4	10.255	19.865	51992	7	21.065	20.203	52066	8	4.119	22.321
51771	16	6.971	16.280	51845	8	18.890	17.299	51919	9	10.289	19.678	51993	5	21.680	20.745	52067	9	4.486	22.006
51772	8	7.004	16.169	51846	8	19.654	17.014	51920	9	10.971	19.851	51994	12	21.940	20.718	52068	6	4.644	22.902
51773	5	7.245	16.446	51847	10	19.774	17.292	51921*	29	11.453	19.736	51995	5	22.010	20.752	52069*	28	4.864	22.510
51774	15	7.364	16.878	51848	13	19.906	17.110	51922	7	11.961	19.062	51996	7	22.355	20.370	52070	6	5.214	22.876
51775	16	7.385	16.856	51849*	31	20.604	17.041	51923	8	12.750	19.218	51997	6	25.558	20.439	52071	6	6.351	22.031
51776	8	9.214	16.018	51850	7	25.563	17.309	51924	9	12.925	19.425	51998	6	0.054	21.607	52072	4	7.395	22.166
51777	12	9.946	16.208	51851	21	25.905	17.274	51925	7	13.486	19.850	51999	11	0.337	21.304	52073	17	7.850	22.922
51778	4	9.965	16.235	51852	14	25.975	17.774	51926	10	14.261	19.517	52000	12	1.061	21.508	52074	5	8.223	22.405
51779	5	10.036	16.273	51853	8	2.459	18.543	51927	12	14.740	19.073	52001	4	1.339	21.257	52075	7	8.417	22.486
51780	8	11.526	16.145	51854	4	2.712	18.025	51928	4	14.788	19.764	52002	5	1.679	21.181	52076	7	9.138	22.279
51781	14	13.463	16.410	51855	9	3.034	18.519	51929	10	15.016	19.149	52003	4	2.616	21.195	52077	11	9.176	22.287
51782	5	13.758	16.711	51856	9	3.102	18.507	51930	7	15.311	19.280	52004	5	3.787	21.028	52078	15	10.369	22.350
51783	10	13.884	16.610	51857*	26	3.420	18.265	51931	8	18.338	19.227	52005	4	3.969	21.322	52079	7	11.276	22.694
51784	4	14.188	16.446	51858	4	3.627	18.170	51932	13	19.638	19.127	52006	5	4.342	21.533	52080	5	11.795	22.822
51785	4	14.651	16.284	51859	4	3.653	18.151	51933	7	20.110	19.575	52007	8	5.104	21.236	52081	14	11.868	22.

52093	5	16°090	22°469	52167	5	20°827	23°383	52241	6	6°073	25°030	52324*	25	23°733	1°562	52398	19	7°980	6°992
52094	4	16°497	22°026	52168	14	24°644	23°472	52242	9	7°634	25°530	52325	13	2°653	2°077	52399	12	9°206	6°412
52095	4	16°901	22°671	52169	7	24°886	23°024	52243	4	7°856	25°990	52326	19	2°845	2°701	52400	22	10°350	6°111
52096	4	17°184	22°244	52170	8	25°297	23°202	52244	9	7°973	25°857	52327	11	4°240	2°692	52401	29	13°375	6°301
52097	16	17°367	22°605	52171	5	25°701	23°946	52245	12	8°715	25°234	52328	10	8°236	2°569	52402	12	15°495	6°682
52098	11	17°445	22°361	52172	4	25°731	23°586	52246	9	9°406	25°772	52329	12	8°729	2°850	52403	20	15°873	6°973
52099	4	17°723	22°186	52173	4	0°464	24°504	52247	11	9°794	25°750	52330	12	8°839	2°046	52404	10	16°678	6°598
52100	6	18°107	22°476	52174	4	0°785	24°385	52248	20	10°212	25°528	52331	10	9°126	2°409	52405	20	17°077	6°850
52101	9	18°858	22°731	52175	5	2°277	24°485	52249	14	11°099	25°723	52332	11	10°267	2°511	52406	11	17°090	6°813
52102*	23	18°965	22°037	52176	7	3°085	24°273	52250	8	12°395	25°981	52333	9	11°931	2°941	52407*	31	18°461	6°530
52103	4	20°044	22°615	52177	13	4°060	24°274	52251*	34	12°864	25°502	52334	28	12°016	2°358	52408	29	19°278	6°022
52104	23	20°502	22°600	52178	8	5°315	24°387	52252	6	13°695	25°171	52335	12	14°907	2°428	52409	10	20°635	6°017
52105	7	20°647	22°213	52179	6	5°461	24°800	52253	5	14°253	25°659	52336	10	17°401	2°341	52410	19	21°691	6°373
52106	7	21°396	22°849	52180	9	6°348	24°124	52254	7	14°941	25°164	52337	17	18°954	2°111	52411	12	21°880	6°819
52107	12	22°115	22°850	52181	6	7°106	24°721	52255	8	15°116	25°234	52338	10	19°260	2°450	52412	12	25°069	6°073
52108	14	22°134	22°258	52182	10	7°155	24°721	52256	14	15°805	25°358	52339	19	20°323	2°221	52413*	30	4°361	7°284
52109*	13	22°492	22°860	52183	7	7°284	24°221	52257	4	16°298	25°866	52340	12	21°134	2°106	52414	9	4°745	7°870
52110	4	22°884	22°866	52184	7	7°425	24°731	52258	6	20°479	25°540	52341	18	25°543	2°300	52415	10	4°872	7°100
52111	12	22°963	22°682	52185*	34	7°727	24°025	52259	10	21°040	25°976	52342*	40	0°694	3°231	52416	10	5°227	7°470
52112	11	24°204	22°602	52186*	24	7°728	24°014	52260	15	21°958	25°280	52343	11	2°390	3°260	52417	12	5°281	7°547
52113	10	24°272	22°730	52187	14	7°770	24°276	52261	5	22°277	25°387	52344	15	3°384	3°430	52418	22	6°242	7°759
52114	15	24°606	22°149	52188	16	8°291	24°576	52262	7	22°706	25°960	52345	12	5°496	3°007	52419	10	8°197	7°051
52115	14	24°660	22°179	52189	4	8°461	24°278	52263	7	23°017	25°469	52346*	33	6°451	3°775	52420	20	13°909	7°030
52116	10	25°313	22°068	52190	4	9°092	24°875	52264	20	23°234	25°864	52347	20	6°664	3°624	52421	10	14°205	7°942
52117	8	1°338	23°321	52191	5	9°370	24°660	52265*	12	23°785	25°336	52348	16	7°462	3°941	52422	16	14°519	7°591
52118	7	1°995	23°138	52192*	51	9°990	24°482	52266*	12	23°915	25°285	52349*	33	7°672	3°438	52423	15	16°207	7°019
52119	7	2°027	23°481	52193	10	10°809	24°144	52267	4	24°379	25°034	52350	10	11°946	3°493	52424	10	17°550	7°625
52120	5	2°318	23°970	52194	13	11°303	24°028	52268	11	25°865	25°082	52351	12	12°261	3°060	52425	13	17°944	7°689
52121	7	3°526	23°843	52195	4	11°725	24°685					52352	11	12°278	3°447	52426	10	19°260	7°918
52122*	17	3°665	23°286	52196	4	11°742	24°869					52353	25	13°016	3°061	52427	11	21°133	7°467
52123	7	4°540	23°869	52197	5	11°864	24°437					52354	17	14°250	3°930	52428	12	21°177	7°469
52124	11	4°902	23°507	52198	17	13°541	24°074					52355*	29	15°132	3°178	52429	10	21°430	7°248
52125	7	4°913	23°413	52199	10	14°787	24°832					52356	20	15°320	3°994	52430	18	22°970	7°334
52126	4	5°233	23°047	52200	5	14°799	24°569					52357	19	15°661	3°551	52431	20	23°602	7°570
52127*	16	6°466	23°666	52201	13	14°987	24°646					52358	16	21°871	3°420	52432	12	0°135	8°741
52128	9	6°993	23°665	52202	6	15°225	24°835					52359	21	22°699	3°548	52433	20	1°252	8°779
52129	5	7°257	23°825	52203	4	15°324	24°463					52360	9	1°487	4°061	52434	12	1°391	8°140
52130	11	8°150	23°605	52204	6	15°405	24°047					52361	11	7°295	4°426	52435	19	1°394	8°000
52131	4	8°164	23°329	52205	7	15°610	24°223					52362	12	11°600	4°894	52436	12	1°818	8°377
52132	4	8°567	23°086	52206	16	16°326	24°064					52363	10	11°878	4°068	52437	10	2°510	8°501
52133	8	8°854	23°604	52207*	29	16°687	24°345					52364*	30	12°350	4°242	52438*	28	3°941	8°315
52134	4	9°300	23°101	52208	7	16°988	24°558					52365*	60	12°508	4°250	52439	14	4°182	8°184
52135	5	9°932	23°583	52209	14	17°085	24°700					52366	16	14°529	4°872	52440	10	4°571	8°552
52136	25	10°256	23°957	52210	5	17°440	24°014					52367	12	16°715	4°569	52441	11	4°896	8°977
52137	5	10°756	23°981	52211	13	17°675	24°951					52368	11	19°301	4°180	52442	11	4°971	8°705
52138	4	10°775	23°056	52212	8	17°936	24°243					52369	10	19°466	4°824	52443	12	7°944	8°309
52139	5	11°145	23°700	52213	8	17°987	24°924					52370	20	19°980	4°757	52444	19	9°202	8°369
52140	4	12°104	23°358	52214	5	18°073	24°512					52371	13	20°481	4°452	52445	18	9°572	8°468
52141	7	12°134	23°364	52215	16	18°326	24°093					52372	12	21°676	4°350	52446	18	9°636	8°959
52142	11	12°194	23°882	52216	7	18°569	24°016					52373	29	24°386	4°263	52447	26	10°096	8°609
52143	13	12°920	23°407	52217	6	18°806	24°081					52374	30	25°660	4°669	52448	10	10°171	8°618
52144	7	13°186	23°191	52218	18	20°064	24°822					52375	18	0°484	5°615	52449	15	11°700	8°501
52145	5	14°055	23°106	52219	13	20°195	24°042					52376	21	1°861	5°824	52450	12	12°297	8°400
52146	6	14°474	23°965	52220	7	20°207	24°330					52377	12	4°185	5°361	52451	11	14°735	8°961
52147	5	14°958	23°042	52221	18	21°164	24°475					52378	20	5°893	5°923	52452	12	16°074	8°579
52148	4	15°160	23°195	52222	5	21°276	24°161					52379	10	5°936	5°369	52453*	31	17°311	8°887
52149	11	15°199	23°401	52223	5	21°417	24°779					52380	14	6°431	5°075	52454*	23	17°964	8°662
52150	7	15°275	23°385	52224	9	23°476	24°934					52381	22	9°109	5°090	52455	12	18°875	8°915
52151	7	15°765	23°596	52225	9	23°701	24°138					52382*	30	9°409	5°815	52456	11	18°925	8°372
52152	5	16°276	23°537	52226*	17	23°976	24°761					52383	11	9°462	5°681	52457	20	22°291	8°907
52153	7	16°444	23°734	52227*	19	24°011	24°947					52384	17	13°778	5°780	52458	9	23°060	8°929
52154	19	16°488	23°895	52228	8	24°015	24°685					52385	10	21°138	5°700	52459	12	23°740	8°498
52155	5	16°588	23°449	52229	9	0°457	25°346					52386	12	21°327	5°168	52460	10	3°377	9°604
52156	21	17°100	23°917	52230	8	1°055	25°166					52387*	23	21°630	5°345	52461	10	4°338	9°716
52157	9	17°413	23°242	52231	4	1°719	25°479					52388*	31	1°126	6°270	52462	12	6°400	9°090
52158	4	17°815	23°962	52232	13	2°085	25°620					52389*	30	1°768	6°481	52463	12	7°096	9°485
52159	5	18°144	23°106	52233	12	2°486	25°415					52390	15	2°571	6°799	52464	11	7°399	9°670
52160	16	18°944	23°295	52234	5	3°115	25°871												

52472	12	17°673	9°622	52546	12	15°408	13°198	52620	11	9°669	17°493	52694	12	15°768	20°085	52768	12	14°848	23°015
52473	21	18°247	9°551	52547*	30	17°491	13°290	52621*	31	12°124	17°470	52695	10	15°784	20°711	52769	9	15°420	23°744
52474	12	18°924	9°655	52548	19	17°807	13°784	52622	19	12°681	17°343	52696	12	16°029	20°187	52770	10	17°704	23°081
52475	27	19°260	9°170	52549	20	19°252	13°256	52623	11	12°689	17°771	52697*	45	16°211	20°151	52771	11	17°768	23°954
52476	10	21°820	9°816	52550	19	19°359	13°262	52624	17	12°950	17°311	52698	10	16°280	20°619	52772	19	21°630	23°790
52477	10	22°203	9°217	52551	11	20°640	13°518	52625	10	13°119	17°893	52699	19	16°647	20°433	52773	20	22°379	23°206
52478	11	23°155	9°475	52552	13	25°237	13°707	52626	11	13°256	17°195	52700	20	18°471	20°959	52774*	20	22°670	23°059
52479*	41	23°711	9°590	52553	10	25°238	13°280	52627	12	15°770	17°773	52701	11	19°734	20°010	52775*	30	0°368	24°792
52480	29	0°075	10°918	52554	22	25°955	13°269	52628	10	16°657	17°380	52702	12	20°402	20°114	52776*	31	0°408	24°978
52481	16	0°557	10°075	52555	10	1°291	14°748	52629	28	18°316	17°360	52703*	19	21°191	20°116	52777	16	5°121	24°544
52482*	21	1°607	10°359	52556	12	2°785	14°398	52630	14	19°980	17°625	52704	22	21°800	20°876	52778	18	5°463	24°776
52483	22	2°017	10°081	52557	11	5°398	14°637	52631	10	20°270	17°540	52705*	30	23°591	20°400	52779	10	6°028	24°639
52484	11	2°165	10°890	52558*	20	8°969	14°930	52632	21	20°492	17°395	52706	10	23°609	20°410	52780	12	6°920	24°481
52485	12	2°621	10°949	52559	12	9°207	14°402	52633	18	20°574	17°665	52707*	26	23°845	20°109	52781	10	8°723	24°909
52486	10	2°894	10°036	52560	14	10°750	14°249	52634*	21	22°049	17°510	52708	12	2°927	21°900	52782	10	9°146	24°980
52487	20	3°543	10°261	52561	18	12°849	14°561	52635	20	22°130	17°298	52709	10	3°556	21°440	52783*	39	11°959	24°276
52488	10	3°875	10°367	52562*	41	13°290	14°130	52636*	38	23°260	17°432	52710	11	4°260	21°941	52784	13	12°836	24°218
52489	20	4°313	10°959	52563	30	15°437	14°481	52637	10	23°276	17°440	52711	10	4°530	21°335	52785	11	14°111	24°521
52490	18	4°914	10°765	52564	12	17°933	14°039	52638	13	24°986	17°980	52712	9	5°485	21°845	52786	11	15°406	24°319
52491	12	5°740	10°666	52565	20	18°277	14°238	52639	21	1°341	18°178	52713	10	6°281	21°891	52787	13	15°735	24°979
52492	20	7°599	10°015	52566	22	18°637	14°609	52640	15	1°593	18°750	52714	10	6°447	21°738	52788	14	19°860	24°269
52493*	58	10°022	10°346	52567	16	19°476	14°617	52641	17	2°622	18°285	52715	11	7°041	21°720	52789	13	21°738	24°956
52494*	27	12°320	10°087	52568	11	20°379	14°943	52642	11	3°621	18°596	52716	10	8°150	21°018	52790	20	24°700	24°592
52495	11	12°651	10°973	52569	22	23°047	14°344	52643*	22	4°256	18°188	52717*	26	9°226	21°590	52791	13	24°876	24°322
52496	12	14°127	10°809	52570	12	23°620	14°369	52644*	22	5°140	18°469	52718	18	9°246	21°591	52792	20	25°831	24°608
52497	11	23°239	10°253	52571	12	23°998	14°840	52645*	20	5°202	18°861	52719	20	11°020	21°321	52793*	15	0°186	25°374
52498	28	24°035	10°399	52572	23	3°453	15°701	52646	11	6°515	18°212	52720	18	11°334	21°389	52794*	10	0°314	25°316
52499	10	2°294	11°496	52573	10	4°465	15°450	52647	10	7°769	18°731	52721	30	11°492	21°786	52795	12	2°261	25°079
52500	10	2°731	11°873	52574	20	6°813	15°600	52648	22	8°073	18°872	52722	12	12°465	21°920	52796*	51	4°906	25°680
52501	10	3°425	11°101	52575*	36	10°091	15°555	52649	10	8°767	18°277	52723	21	12°588	21°582	52797	11	5°741	25°011
52502	12	4°369	11°221	52576	15	10°374	15°561	52650	12	9°360	18°956	52724	10	13°489	21°693	52798	17	9°373	25°337
52503	10	6°075	11°141	52577	18	11°011	15°800	52651	11	10°030	18°542	52725	30	14°669	21°231	52799	24	9°898	25°259
52504	16	9°135	11°125	52578	21	13°235	15°402	52652	13	14°518	18°521	52726	13	16°710	21°023	52800	9	13°196	25°492
52505	12	20°644	11°249	52579	12	13°878	15°069	52653	12	15°838	18°626	52727*	25	20°316	21°635	52801*	21	14°924	25°384
52506*	30	20°648	11°365	52580	16	14°041	15°073	52654	12	17°629	18°818	52728	11	20°670	21°706	52802	11	15°616	25°875
52507	9	20°680	11°610	52581	18	15°548	15°122	52655	10	20°869	18°631	52729	20	25°631	21°598	52803	13	15°686	25°753
52508	10	20°911	11°695	52582	14	18°079	15°740	52656	15	21°423	18°357	52730	21	0°951	22°169	52804	11	16°192	25°606
52509	12	22°281	11°890	52583	12	19°794	15°347	52657	11	23°410	18°204	52731	22	1°002	22°199	52805	10	20°100	25°552
52510	9	23°480	11°244	52584	12	20°105	15°450	52658	11	23°641	18°048	52732	12	1°655	22°075	52806*	22	23°164	25°115
52511	20	0°674	12°271	52585	25	20°762	15°729	52659	18	24°711	18°500	52733*	11	3°774	22°374	52807	15	23°241	25°127
52512	19	0°850	12°336	52586	20	23°182	15°183	52660	12	24°730	18°330	52734	12	4°469	22°011	52808*	31	23°633	25°449
52513	21	2°832	12°253	52587	16	0°471	16°727	52661	12	0°721	19°008	52735	11	4°660	22°254	52809	21	24°072	25°069
52514	10	3°294	12°485	52588*	11	2°387	16°863	52662	27	1°320	19°323	52736	11	5°898	22°857				
52515	11	3°652	12°044	52589	11	2°750	16°616	52663	9	4°031	19°595	52737*	25	6°270	22°536				
52516	19	5°123	12°849	52590	10	4°059	16°477	52664	10	4°405	19°172	52738	13	8°395	22°333				
52517	15	5°582	12°948	52591*	30	4°511	16°609	52665	20	4°727	19°135	52739	11	8°473	22°920				
52518	10	6°767	12°659	52592	16	5°200	16°385	52666	10	5°358	19°829	52740*	21	11°016	22°111				
52519	12	7°629	12°060	52593	20	5°387	16°860	52667	10	6°645	19°671	52741*	30	11°980	22°421				
52520*	39	11°597	12°539	52594	11	6°300	16°789	52668	29	6°927	19°916	52742*	23	12°263	22°702				
52521	20	12°521	12°050	52595	11	7°043	16°063	52669	10	7°900	19°640	52743	20	13°294	22°721				
52522	20	14°907	12°820	52596	14	10°260	16°970	52670*	32	8°370	19°055	52744	10	14°455	22°767				
52523	21	14°997	12°019	52597	12	10°694	16°021	52671	29	9°554	19°079	52745*	21	16°769	22°609				
52524	12	16°863	12°251	52598	15	12°020	16°731	52672	11	9°986	19°617	52746	11	16°875	22°799				
52525	18	17°621	12°028	52599	19	13°743	16°801	52673*	30	12°460	19°033	52747	10	17°021	22°421				
52526	11	19°813	12°925	52600	16	15°570	16°900	52674	22	14°415	19°328	52748	11	17°024	22°758				
52527	10	20°321	12°010	52601	12	18°499	16°812	52675	19	14°854	19°921	52749	10	18°366	22°885				
52528	21	22°200	12°541	52602	16	18°542	16°320	52676	20	15°648	19°174	52750	9	19°141	22°370				
52529	10	22°265	12°636	52603	19	18°945	16°913	52677	10	17°945	19°194	52751	15	22°222	22°446				
52530	11	23°361	12°435	52604	20	19°462	16°213	52678	19	20°910	19°946	52752	17	23°870	22°623				
52531	12	1°595	13°296	52605*	16	20°501	16°346	52679	11	20°946	19°705	52753	18	24°941	22°474				
52532*	25	2°291	13°091	52606	20	21°722	16°121	52680	20	21°120	19°476	52754	22	1°009	23°493				
52533	18	3°521	13°824	52607	11	22°665	16°522	52681*	19	24°660	19°557	52755	11	3°455	23°410				
52534	11	5°748	13°050	52608*	30	23°320	16°535	52682	10	2°362	20°195	52756	10	3°707	23°199				
52535	10	6°081	13°711	52609	20	24°163	16°900	52683	11	3°755	20°791	52757	10	5°508	23°800				
52536	10	6°470	13°037	52610	24	2°161	17												

52910*	25	12°582	0°704	52984	20	23°183	3°584	53058	7	18°748	5°279	53132	23	10°903	7°990	53206	19	25°535	8°283
52911*	14	15°800	0°355	52985	19	25°300	3°681	53059	8	19°060	5°596	53133	16	11°281	7°611	53207	14	25°556	8°286
52912	10	16°379	0°025	52986	30	1°179	4°381	53060	10	19°418	5°483	53134	20	11°583	7°472	53208	12	0°033	9°660
52913	11	18°825	0°245	52987	24	2°470	4°768	53061	14	22°612	5°340	53135	8	12°290	7°465	53209	9	0°359	9°856
52914	10	21°824	0°296	52988	10	3°404	4°451	53062	10	23°192	5°332	53136	9	12°297	7°195	53210*	50	0°599	9°764
52915	20	23°512	0°780	52989	10	4°459	4°323	53063	9	23°982	5°622	53137	10	13°021	7°440	53211	9	2°444	9°201
52916	24	23°851	0°450	52990	10	6°581	4°852	53064	20	24°020	5°912	53138	9	13°063	7°591	53212	9	2°577	9°873
52917	12	24°258	0°510	52991	17	6°656	4°445	53065	9	25°187	5°834	53139	10	13°185	7°640	53213	11	2°992	9°393
52918	22	25°338	0°551	52992	10	7°001	4°572	53066*	40	25°218	5°684	53140	8	13°251	7°065	53214	9	3°283	9°023
52919	29	0°470	1°669	52993	8	7°458	4°935	53067	19	25°872	5°058	53141	8	13°478	7°673	53215	12	3°958	9°726
52920	11	4°443	1°491	52994	8	8°003	4°278	53068	13	1°903	6°194	53142	12	13°689	7°837	53216	15	4°598	9°558
52921	10	8°984	1°208	52995	12	8°829	4°075	53069	14	4°823	6°242	53143	9	13°823	7°580	53217	21	4°659	9°520
52922	9	9°648	1°792	52996	10	9°293	4°874	53070*	29	5°075	6°977	53144	11	14°485	7°295	53218	13	4°875	9°325
52923	20	9°886	1°656	52997	8	9°410	4°352	53071	20	5°299	6°426	53145	10	16°147	7°678	53219	13	5°176	9°100
52924	9	10°736	1°520	52998	10	10°850	4°918	53072	8	5°450	6°971	53146	10	16°388	7°826	53220	10	5°626	9°676
52925*	31	11°531	1°148	52999	17	10°874	4°555	53073	20	6°117	6°677	53147	8	16°501	7°946	53221	8	5°756	9°434
52926	10	12°191	1°716	53000	10	11°363	4°000	53074	8	6°539	6°575	53148	15	16°526	7°795	53222	12	6°303	9°160
52927	9	12°801	1°489	53001	10	11°900	4°895	53075	11	6°598	6°676	53149	11	16°927	7°211	53223	10	6°471	9°784
52928	8	13°888	1°334	53002	10	13°838	4°098	53076	8	7°052	6°342	53150	17	17°354	7°628	53224	8	6°767	9°693
52929	10	14°538	1°815	53003	9	14°053	4°528	53077	11	7°614	6°782	53151	12	17°836	7°988	53225*	19	7°095	9°561
52930	11	15°283	1°729	53004	8	14°268	4°521	53078	10	7°806	6°353	53152	10	18°898	7°929	53226	9	8°080	9°966
52931	10	16°910	1°966	53005	8	14°298	4°217	53079	14	8°677	6°440	53153	8	18°932	7°601	53227	8	8°233	9°088
52932	14	18°533	1°595	53006	11	14°684	4°569	53080	7	9°060	6°462	53154	20	20°997	7°105	53228	10	9°091	9°020
52933	12	18°780	1°131	53007	10	15°103	4°425	53081	9	9°212	6°572	53155	10	22°100	7°461	53229	8	9°170	9°838
52934	10	19°194	1°735	53008	10	15°247	4°007	53082	10	9°300	6°539	53156	13	23°378	7°542	53230	20	9°497	9°801
52935	10	20°501	1°110	53009	11	17°166	4°602	53083	11	9°366	6°976	53157	9	23°748	7°587	53231	19	9°991	9°538
52936	19	2°311	2°382	53010	12	17°421	4°802	53084	8	9°754	6°316	53158	17	23°795	7°912	53232	20	10°045	9°304
52937	10	3°889	2°085	53011	8	17°568	4°650	53085	10	10°070	6°337	53159	12	24°134	7°961	53233	9	11°032	9°764
52938	9	3°948	2°455	53012	8	18°059	4°027	53086	28	10°399	6°832	53160	14	25°326	7°166	53234	8	11°482	9°943
52939	12	4°259	2°350	53013	8	18°264	4°839	53087	10	10°430	6°326	53161	19	0°604	8°661	53235	8	11°782	9°540
52940	20	6°258	2°465	53014	9	19°002	4°908	53088	9	11°032	6°898	53162	8	1°516	8°185	53236	8	11°958	9°740
52941	10	8°737	2°402	53015	9	19°568	4°963	53089	9	11°292	6°211	53163	10	1°580	8°877	53237*	30	12°271	9°112
52942	9	9°949	2°443	53016	9	19°576	4°194	53090	10	11°823	6°279	53164	9	1°991	8°931	53238	10	12°876	9°033
52943	8	10°297	2°929	53017	19	19°968	4°087	53091	8	12°239	6°332	53165	8	2°580	8°916	53239	8	13°789	9°132
52944	10	10°937	2°201	53018	10	22°098	4°862	53092	16	12°590	6°215	53166	15	3°090	8°551	53240	8	13°797	9°975
52945*	20	10°986	2°012	53019	12	22°103	4°450	53093	8	12°928	6°440	53167	8	3°243	8°500	53241	12	13°828	9°679
52946	9	11°669	2°192	53020	8	22°204	4°325	53094	12	13°376	6°849	53168	9	3°262	8°769	53242	8	14°370	9°115
52947	14	12°149	2°785	53021*	28	22°526	4°749	53095	8	14°209	6°466	53169	12	3°598	8°147	53243	11	15°378	9°661
52948	16	13°241	2°344	53022	12	22°778	4°490	53096	9	14°222	6°049	53170	11	4°000	8°809	53244	9	15°600	9°427
52949	8	13°491	2°305	53023	10	23°593	4°826	53097	10	14°380	6°209	53171	10	4°240	8°898	53245	8	15°848	9°037
52950	8	14°072	2°157	53024	13	24°841	4°414	53098	9	14°475	6°128	53172	11	4°394	8°501	53246	8	16°491	9°797
52951	10	15°025	2°186	53025	9	1°819	5°453	53099	10	15°441	6°530	53173	14	5°231	8°724	53247	8	17°019	9°500
52952	8	15°795	2°971	53026	8	2°440	5°798	53100	9	16°078	6°838	53174	10	5°256	8°950	53248	12	17°570	9°006
52953	8	17°072	2°734	53027	10	4°078	5°350	53101	10	16°297	6°835	53175	9	5°461	8°323	53249	10	18°053	9°600
52954*	25	17°557	2°986	53028	8	5°073	5°611	53102	8	16°962	6°609	53176	10	5°504	8°944	53250	12	18°547	9°083
52955*	40	17°625	2°345	53029	9	5°964	5°292	53103	9	18°720	6°017	53177	9	6°379	8°725	53251*	24	19°091	9°985
52956	9	17°850	2°367	53030	17	6°181	5°110	53104	9	19°544	6°483	53178	8	6°557	8°083	53252	8	20°080	9°036
52957	12	19°159	2°794	53031	8	6°511	5°754	53105	8	19°552	6°910	53179	11	7°970	8°230	53253	8	20°252	9°768
52958	8	21°440	2°819	53032	9	7°913	5°525	53106	10	20°032	6°233	53180	8	8°558	8°874	53254	8	20°744	9°613
52959*	39	22°948	2°845	53033	8	8°335	5°873	53107	14	20°858	6°072	53181	19	8°772	8°439	53255*	40	22°216	9°584
52960	8	1°012	3°151	53034	12	8°561	5°569	53108	9	21°099	6°519	53182	9	9°073	8°517	53256*	45	24°526	9°666
52961*	28	3°339	3°788	53035	8	8°909	5°931	53109	8	22°259	6°961	53183	25	9°130	8°169	53257	10	25°620	9°303
52962*	34	4°630	3°995	53036	10	10°052	5°712	53110	10	22°764	6°794	53184	8	10°925	8°340	53258	18	0°131	10°441
52963	8	4°880	3°544	53037	11	10°480	5°914	53111	10	23°087	6°050	53185*	26	11°300	8°165	53259	31	0°939	10°572
52964	10	6°629	3°179	53038	22	10°819	5°682	53112	20	23°504	6°389	53186	12	11°895	8°846	53260	11	3°200	10°108
52965	8	6°733	3°315	53039	20	11°136	5°275	53113	24	24°868	6°972	53187	9	12°068	8°300	53261	14	3°280	10°271
52966	8	7°512	3°915	53040	10	11°552	5°480	53114	10	25°114	6°487	53188	9	12°506	8°096	53262	10	3°447	10°849
52967	14	8°856	3°507	53041	8	11°818	5°863	53115	26	0°447	7°728	53189*	25	13°190	8°770	53263	8	3°732	10°402
52968	10	10°300	3°151	53042	12	11°963	5°869	53116	30	3°220	7°118	53190	18	13°611	8°655	53264	8	5°053	10°771
52969	12	10°908	3°090	53043	13	12°015	5°433	53117	10	4°180	7°394	53191	8	14°836	8°184	53265	13	5°251	10°818
52970	10	11°749	3°425	53044*	22	13°314	5°676	53118	14	5°015	7°485	53192	8	15°337	8°745	53266	8	5°656	10°749
52971	8	11°841	3°470	53045	10	13°346	5°418	53119	10	5°247	7°110	53193	10	15°537	8°876	53267	10	5°668	10°321
52972	21	12°325	3°609	53046	8	13°667	5°462	53120	11	5°358	7°189	53194	9	15°603	8°181	53268	9	5°759	10°154
52973	8	12°572	3°611	53047	8	14°553	5°868	53121	9	5°443	7°681	53195	10	15°609	8°472	53269	8	6°827	1

53280	12	11°07'	10°54'	53354	8	1°65'	12°10'	53428	8	20°09'	13°56'	53502	11	6°09'	15°59'	53576	11	18°25'	16°45'
53281	10	12°10'	10°95'	53355	8	2°72'	12°07'	53429	12	21°16'	13°17'	53503	10	6°35'	15°04'	53577	9	18°55'	16°05'
53282	8	13°44'	10°95'	53356	10	3°123	12°80'	53430	8	22°20'	13°92'	53504	8	6°71'	15°62'	53578	10	18°71'	16°48'
53283	7	13°52'	10°92'	53357	8	4°175	12°05'	53431	12	22°77'	13°93'	53505	17	6°945	15°595	53579*	20	19°645	16°480
53284	8	13°80'	10°67'	53358	8	4°650	12°463	53432	20	23°500	13°680	53506	11	7°198	15°285	53580	12	19°939	16°176
53285	10	14°25'	10°88'	53359	9	5°278	12°937	53433	22	23°635	13°437	53507	8	9°124	15°080	53581	10	20°259	16°571
53286	10	14°41'	10°086	53360	7	6°059	12°928	53434	11	24°469	13°334	53508*	20	10°058	15°031	53582	21	21°334	16°015
53287	9	14°865	10°934	53361	8	6°756	12°809	53435	8	24°474	13°752	53509	16	10°561	15°829	53583	10	21°335	16°292
53288	8	15°829	10°889	53362	26	6°800	12°765	53436	29	0°014	14°568	53510	8	10°761	15°176	53584	9	21°857	16°588
53289	18	15°900	10°405	53363	8	7°010	12°583	53437	16	0°589	14°582	53511	8	10°842	15°816	53585	12	21°965	16°718
53290	8	16°032	10°210	53364	29	7°602	12°374	53438	7	1°482	14°152	53512	16	10°895	15°258	53586	8	22°061	16°030
53291	8	16°181	10°591	53365	8	7°607	12°732	53439	8	1°846	14°727	53513	8	11°857	15°202	53587	8	22°085	16°934
53292	10	16°917	10°447	53366	9	7°979	12°525	53440	10	2°630	14°041	53514	10	12°587	15°050	53588	12	22°814	16°189
53293	8	16°946	10°976	53367	10	9°595	12°154	53441	8	4°337	14°122	53515	9	12°801	15°695	53589*	40	23°126	16°405
53294	10	17°200	10°835	53368	8	9°808	12°799	53442	9	4°551	14°872	53516	17	13°010	15°115	53590	11	23°495	16°439
53295	8	19°010	10°300	53369	10	9°900	12°050	53443	10	6°026	14°918	53517	8	13°114	15°459	53591	11	23°718	16°929
53296*	20	19°699	10°810	53370	9	9°925	12°376	53444	11	6°041	14°390	53518	9	13°460	15°200	53592	9	24°167	16°001
53297	13	20°081	10°211	53371	11	10°893	12°115	53445	10	6°709	14°579	53519	10	14°421	15°460	53593	8	24°415	16°666
53298	12	20°224	10°239	53372	9	11°416	12°644	53446	8	6°999	14°654	53520	8	14°542	15°536	53594	9	25°524	16°116
53299	8	21°679	10°871	53373	10	11°574	12°636	53447	8	7°453	14°465	53521	12	14°788	15°600	53595	23	25°737	16°348
53300	13	22°227	10°123	53374	10	11°791	12°920	53448	9	7°585	14°632	53522	8	15°013	15°907	53596	48	0°288	17°678
53301	10	22°510	10°608	53375	9	11°792	12°539	53449	10	7°676	14°784	53523	11	15°079	15°761	53597	22	1°187	17°123
53302	9	23°113	10°498	53376	11	12°541	12°405	53450	9	8°675	14°970	53524	15	16°892	15°650	53598	20	3°169	17°086
53303	8	23°730	10°420	53377	10	14°021	12°701	53451	10	9°122	14°918	53525	12	16°985	15°633	53599	9	3°190	17°158
53304	8	0°387	11°435	53378	9	14°412	12°889	53452	10	9°443	14°538	53526	8	17°194	15°750	53600	8	3°610	17°635
53305	9	1°288	11°869	53379*	18	14°808	12°657	53453	15	10°161	14°053	53527	9	18°329	15°650	53601	11	3°703	17°148
53306	8	1°560	11°973	53380	10	15°339	12°476	53454	9	11°312	14°553	53528	10	18°732	15°089	53602	11	4°276	17°528
53307	9	1°796	11°529	53381	10	15°601	12°828	53455	11	11°658	14°661	53529	11	19°702	15°429	53603	10	4°758	17°665
53308	9	2°000	11°776	53382	8	15°937	12°262	53456	12	12°132	14°659	53530	10	20°481	15°263	53604	20	4°941	17°660
53309	12	3°270	11°350	53383	22	18°694	12°490	53457	9	12°140	14°241	53531	8	20°753	15°858	53605	11	5°089	17°720
53310*	27	3°652	11°590	53384	8	18°958	12°816	53458	10	12°280	14°125	53532	9	20°901	15°256	53606	9	5°164	17°422
53311	10	3°815	11°020	53385	13	19°945	12°388	53459	8	12°537	14°358	53533	8	20°944	15°564	53607	9	5°905	17°178
53312	11	4°385	11°107	53386	19	20°260	12°373	53460	9	12°720	14°166	53534	10	21°088	15°495	53608	8	6°486	17°981
53313	9	5°121	11°001	53387	14	22°145	12°194	53461	12	12°751	14°387	53535	17	21°099	15°171	53609	11	6°774	17°060
53314	10	5°762	11°769	53388	10	22°423	12°914	53462	9	13°150	14°595	53536*	30	21°142	15°560	53610	10	7°494	17°180
53315	8	6°010	11°763	53389	9	24°000	12°584	53463	10	13°438	14°810	53537	10	21°172	15°413	53611*	27	7°625	17°053
53316	9	6°091	11°998	53390	12	24°393	12°580	53464	12	13°830	14°712	53538	21	21°401	15°639	53612	10	8°221	17°020
53317	10	6°234	11°379	53391	10	0°486	13°690	53465	9	14°200	14°955	53539	9	21°710	15°401	53613	9	8°991	17°773
53318	12	6°739	11°317	53392	8	1°648	13°255	53466	8	14°454	14°628	53540	8	21°889	15°730	53614	8	9°354	17°079
53319	19	6°880	11°007	53393	9	1°711	13°934	53467	10	14°719	14°510	53541	8	22°422	15°946	53615	10	9°619	17°055
53320	8	6°911	11°395	53394	11	1°763	13°167	53468	8	14°785	14°905	53542	9	22°488	15°500	53616	8	10°064	17°371
53321	9	8°203	11°530	53395	10	1°840	13°551	53469	9	15°687	14°739	53543	10	22°909	15°261	53617	10	10°386	17°140
53322	8	8°534	11°849	53396	10	2°205	13°454	53470	10	15°902	14°441	53544	23	24°039	15°098	53618	11	11°291	17°466
53323	12	8°741	11°743	53397	8	2°209	13°933	53471*	20	16°030	14°072	53545	19	24°297	15°629	53619	11	11°758	17°745
53324	10	9°555	11°036	53398	11	2°210	13°885	53472	9	16°371	14°806	53546	10	24°380	15°259	53620	11	11°766	17°638
53325	8	9°693	11°564	53399	18	2°926	13°431	53473	10	16°789	14°943	53547	40	0°329	16°771	53621*	31	11°973	17°660
53326	8	10°336	11°249	53400	10	3°422	13°818	53474	9	17°455	14°540	53548	9	1°482	16°254	53622	10	12°053	17°653
53327	8	10°745	11°066	53401	8	3°809	13°950	53475	12	17°586	14°621	53549	11	2°151	16°203	53623	10	12°176	17°774
53328	20	10°830	11°645	53402	10	4°466	13°279	53476	8	18°056	14°383	53550	10	2°670	16°376	53624*	11	12°298	17°030
53329	16	11°170	11°429	53403	10	4°900	13°222	53477	11	18°809	14°906	53551	12	3°613	16°906	53625	8	12°784	17°366
53330	8	11°346	11°733	53404	13	6°125	13°096	53478	15	18°935	14°335	53552	9	3°694	16°869	53626	9	13°221	17°656
53331*	60	11°921	11°700	53405	12	6°639	13°653	53479	8	19°493	14°681	53553	20	4°065	16°488	53627	14	13°725	17°838
53332*	14	12°071	11°858	53406	8	8°933	13°311	53480	14	20°611	14°060	53554	8	4°702	16°861	53628	15	14°496	17°007
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53334	8	12°439	11°090	53408	22	10°144	13°536	53482	12	21°388	14°628	53556	8	5°146	16°561	53630	10	14°943	17°142
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53336	7	12°677	11°606	53410	30	11°121	13°608	53484	10	22°967	14°293	53558	8	5°301	16°507	53632	8	15°920	17°922
53337	8	13°865	11°168	53411	11	11°141	13°634	53485	9	23°678	14°695	53559	9	5°583	16°932	53633	9	16°019	17°065
53338*	20	14°689	11°977	53412	10	13°519	13°846	53486	11	23°950	14°768	53560*	17	7°016	16°449	53634	10	16°157	17°708
53339	9	15°335	11°599	53413	10	13°600	13°591	53487	8	24°835	14°320	53561	14	8°552	16°521	53635	9	16°347	17°471
53340	8	16°530	11°694	53414	8	14°231	13°500	53488	8	24°865	14°044	53562	9	8°614	16°030	53636	13	17°357	17°623
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53342	8	19°048	11°878	53416	8	14°999	13°272	53490	13	25°585	14°115	53564</							

53650	9	22°437	17°295	53724	9	2°417	19°388	53798	8	13°558	20°811	53872	10	4°803	22°634	53946	8	5°537	24°183
53651	8	23°127	17°798	53725	10	2°552	19°383	53799	8	14°766	20°044	53873	10	4°915	22°215	53947	9	5°578	24°358
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53662	11	2°036	18°198	53736	10	9°300	19°808	53810	9	22°172	20°390	53884	8	10°312	22°347	53958	12	13°877	24°474
53663	9	2°659	18°321	53737	11	9°431	19°232	53811	9	22°738	20°744	53885	9	12°301	22°476	53959	12	14°220	24°921
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53668	23	4°535	18°592	53742	11	10°790	19°320	53816*	20	24°639	20°154	53890	7	16°229	22°363	53964	9	19°256	24°350
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53671	9	5°315	18°873	53745	12	12°299	19°891	53819	12	4°111	21°904	53893	9	17°707	22°890	53967	8	20°225	24°058
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53673	8	5°811	18°200	53747	10	12°979	19°770	53821	12	5°862	21°320	53895	10	18°050	22°301	53969	22	23°554	24°317
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53675	8	6°227	18°275	53749	9	14°571	19°969	53823	8	7°071	21°054	53897	10	18°577	22°570	53971	26	0°330	25°428
53676	10	6°253	18°421	53750	12	15°029	19°190	53824	11	7°513	21°081	53898	11	18°728	22°887	53972	14	0°408	25°427
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53693	9	11°802	18°471	53767	12	24°151	19°445	53841*	30	13°188	21°950	53915*	22	8°149	23°353	53989	8	12°520	25°057
53694	9	12°200	18°517	53768*	43	0°675	20°664	53842	10	13°221	21°048	53916	9	8°301	23°917	53990	10	12°645	25°444
53695	8	12°668	18°785	53769*	30	0°924	20°363	53843	12	13°278	21°650	53917	9	9°650	23°088	53991	9	12°706	25°405
53696	13	13°646	18°520	53770	12	2°090	20°386	53844	8	13°681	21°525	53918*	20	9°815	23°640	53992	8	14°912	25°124
53697	20	14°015	18°616	53771	9	2°944	20°419	53845	8	13°851	21°921	53919	9	10°209	23°602	53993	10	15°000	25°962
53698	8	14°172	18°832	53772*	31	3°203	20°078	53846	10	14°379	21°359	53920	10	10°390	23°009	53994	8	16°209	25°070
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53709*	33	16°630	18°387	53783	12	6°135	20°840	53857	8	19°566	21°685	53931*	29	19°585	23°481				
53710	10	16°767	18°907	53784	22	6°140	20°621	53858	8	19°691	21°171	53932*	30	20°381	23°115				
53711	8	16°811	18°031	53785*	12	6°410	20°034	53859	14	19°757	21°201	53933	9	20°960	23°938				
53712	10	17°035	18°680	53786	10	6°935	20°451	53860*	24	19°860	21°885	53934	9	21°840	23°351				

54101-54452.

54453	10	4°287	12°490	54527	10	19°567	13°480	54601	11	11°683	15°528	54675	9	6°068	17°309	54749	11	17°185	18°990
54454	11	4°592	12°518	54528	8	20°589	13°929	54602	8	12°472	15°719	54676	8	7°011	17°246	54750	12	19°424	18°238
54455	8	4°688	12°945	54529	8	21°310	13°333	54603*	36	13°217	15°255	54677	11	7°257	17°125	54751	10	19°969	18°366
54456	9	5°361	12°766	54530	10	21°385	13°083	54604	16	13°318	15°479	54678	10	7°710	17°883	54752	9	20°080	18°111
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54458	10	7°909	12°390	54532	8	22°373	13°490	54606	10	13°895	15°305	54680	9	7°742	17°530	54754	16	20°465	18°859
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54461	10	8°664	12°642	54535	11	23°151	13°226	54609	10	15°945	15°139	54683	12	9°675	17°376	54757	9	21°730	18°517
54462	10	8°919	12°158	54536	10	23°593	13°821	54610	12	17°335	15°982	54684	10	9°960	17°498	54758	18	22°350	18°304
54463	16	12°173	12°938	54537	10	24°145	13°404	54611	11	17°348	15°833	54685	10	10°180	17°828	54759	11	22°511	18°777
54464	10	12°603	12°489	54538	12	24°626	13°907	54612	9	17°804	15°798	54686	11	10°265	17°097	54760	10	24°189	18°310
54465	18	12°961	12°440	54539	8	24°685	13°965	54613	10	18°776	15°290	54687	8	10°910	17°869	54761	12	24°435	18°888
54466	10	13°145	12°987	54540	8	24°902	13°841	54614	9	19°388	15°914	54688	10	11°007	17°355	54762*	35	1°958	19°186
54467	15	13°340	12°881	54541	12	24°951	13°154	54615	10	19°476	15°632	54689	9	11°337	17°182	54763	20	2°134	19°180
54468	10	15°449	12°443	54542	9	0°191	14°588	54616	12	19°545	15°445	54690	10	11°471	17°902	54764*	9	4°026	19°320
54469	8	15°730	12°446	54543	13	0°701	14°045	54617	8	20°084	15°692	54691*	18	12°897	17°765	54765	10	4°783	19°064
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54471	10	16°079	12°804	54545	11	2°959	14°724	54619	9	21°263	15°120	54693	9	13°467	17°143	54767*	32	6°117	19°008
54472	11	16°514	12°375	54546	9	3°032	14°471	54620	8	21°807	15°947	54694	6	13°830	17°039	54768	9	6°828	19°235
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54475	14	16°894	12°345	54549	10	3°549	14°533	54623	22	25°399	15°272	54697	8	15°106	17°922	54771	10	8°141	19°365
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54477	9	17°450	12°786	54551	27	3°673	14°486	54625	12	1°236	16°876	54699	18	16°473	17°673	54773	8	8°181	19°370
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54479	14	17°980	12°848	54553	10	5°586	14°651	54627	8	3°352	16°182	54701	16	16°512	17°859	54775	12	8°682	19°705
54480	10	18°328	12°175	54554	8	5°804	14°695	54628*	25	4°326	16°909	54702	8	16°820	17°984	54776	10	9°715	19°340
54481	9	19°029	12°565	54555	10	6°297	14°179	54629	7	4°597	16°288	54703	9	16°961	17°553	54777	11	11°098	19°801
54482	10	20°109	12°016	54556	12	6°550	14°051	54630	10	5°095	16°522	54704	8	17°156	17°551	54778	9	11°330	19°539
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54484	9	20°265	12°161	54558	11	9°897	14°592	54632	8	6°373	16°183	54706	8	17°680	17°988	54780	10	12°111	19°306
54485	9	20°947	12°137	54559	16	10°170	14°095	54633	9	6°800	16°084	54707	8	17°688	17°675	54781	25	12°164	19°800
54486*	22	21°093	12°430	54560	10	10°339	14°493	54634	8	7°928	16°014	54708	10	18°161	17°609	54782	11	13°287	19°117
54487	9	22°131	12°700	54561	7	10°653	14°181	54635	8	8°730	16°335	54709	9	18°779	17°441	54783	10	13°701	19°036
54488	18	22°544	12°125	54562	10	11°065	14°615	54636	8	9°842	16°473	54710	9	19°301	17°064	54784	9	13°842	19°165
54489	12	23°791	12°150	54563*	16	11°722	14°598	54637	11	10°153	16°587	54711	12	19°563	17°142	54785	8	14°853	19°252
54490	11	2°929	13°345	54564	9	12°144	14°478	54638	20	10°308	16°528	54712	10	19°613	17°912	54786	12	16°150	19°902
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54492	8	3°517	13°788	54566	7	13°153	14°109	54640	18	11°486	16°096	54714	9	21°937	17°948	54788	9	17°154	19°860
54493*	28	3°537	13°780	54567	11	14°079	14°333	54641	16	11°758	16°434	54715	8	23°895	17°845	54789	10	17°230	19°564
54494	10	4°486	13°583	54568	11	14°424	14°636	54642	19	13°051	16°492	54716	9	24°398	17°451	54790	8	17°750	19°870
54495	8	4°733	13°811	54569	10	15°132	14°352	54643	10	13°152	16°152	54717	18	1°013	18°722	54791	19	18°301	19°933
54496	8	4°745	13°573	54570	12	15°352	14°596	54644	11	15°798	16°460	54718	10	1°541	18°595	54792	8	18°320	19°718
54497	10	4°809	13°428	54571	12	15°578	14°317	54645	12	15°960	16°504	54719	12	2°055	18°129	54793	9	18°355	19°654
54498	9	5°363	13°612	54572	10	16°901	14°401	54646	10	16°530	16°426	54720	12	2°211	18°260	54794	15	18°597	19°690
54499	10	5°912	13°250	54573	8	17°342	14°204	54647	8	16°687	16°956	54721	8	3°020	18°307	54795	11	18°719	19°125
54500	11	6°729	13°753	54574	11	17°750	14°785	54648	10	17°549	16°058	54722	12	4°855	18°320	54796	10	19°574	19°889
54501	15	6°973	13°555	54575	8	18°260	14°319	54649	9	17°643	16°243	54723	8	5°148	18°711	54797	11	20°346	19°990
54502	9	6°974	13°604	54576	8	18°309	14°610	54650	10	18°178	16°432	54724	10	6°555	18°356	54798	10	20°372	19°974
54503	10	7°459	13°449	54577	10	18°337	14°487	54651	9	18°582	16°486	54725	8	7°086	18°030	54799	9	20°729	19°551
54504*	32	7°622	13°541	54578	11	19°445	14°526	54652	16	18°885	16°355	54726	9	7°147	18°667	54800	12	20°811	19°520
54505	9	8°417	13°195	54579	10	22°559	14°348	54653	10	18°900	16°664	54727	18	7°255	18°194	54801	9	20°968	19°227
54506	10	8°432	13°050	54580	15	22°710	14°119	54654	11	18°936	16°772	54728	8	7°608	18°596	54802*	19	21°250	19°779
54507	9	8°600	13°230	54581	10	23°631	14°848	54655	9	19°084	16°645	54729	10	8°154	18°934	54803	9	21°334	19°029
54508	10	9°249	13°953	54582	8	24°544	14°467	54656	8	19°140	16°897	54730	10	9°162	18°983	54804	8	21°767	19°438
54509	10	9°480	13°912	54583	12	1°426	15°540	54657	8	19°209	16°216	54731	9	9°509	18°616	54805	11	22°205	19°874
54510	11	10°643	13°843	54584	10	1°665	15°282	54658	10	19°429	16°107	54732	15	9°599	18°683	54806	10	22°623	19°561
54511	10	10°790	13°173	54585	9	2°115	15°838	54659	12	20°323	16°860	54733	10	9°930	18°790	54807	11	23°057	19°235
54512	9	11°890	13°056	54586	10	2°484	15°520	54660*	40	21°225	16°227	54734	10	9°994	18°896	54808	10	23°736	19°814
54513	11	12°053	13°568	54587	9	2°690	15°058	54661	11	22°051	16°846	54735	8	10°110	18°414	54809	12	24°933	19°363
54514	10	12°381	13°450	54588	20	2°871	15°347	54662*	29	22°165	16°506	54736	11	10°898	18°675	54810	28	25°907	19°701
54515*	20	12°520	13°711	54589															

54823	9	8°011	20°238	54897	12	20°635	21°816	54971	10	22°545	23°968	55157	12	20°399	1°807
54824	10	8°784	20°780	54898	10	21°304	21°276	54972	11	22°686	23°753	55158	5	20°650	1°851
54825	12	8°865	20°091	54899	10	21°337	21°741	54973	12	22°889	23°103	55159	13	21°355	1°700
54826	10	9°587	20°530	54900	9	21°744	21°516	54974	22	24°284	23°449	55160	4	21°420	1°825
54827*	29	10°420	20°463	54901	17	23°133	21°631	54975	20	24°371	23°790	55161	5	22°144	1°380
54828	9	10°460	20°585	54902	10	23°340	21°477	54976	28	24°845	23°665	55162	8	23°928	1°121
54829	10	10°674	20°409	54903	12	23°489	21°981	54977	31	25°416	23°084	55163	4	24°959	1°410
54830	9	10°871	20°226	54904	17	23°581	21°710	54978*	20	5°794	24°240	55164	12	25°378	1°563
54831	8	10°879	20°172	54905	20	24°790	21°586	54979*	18	7°310	24°146	55165	5	0°571	2°812
54832	8	12°188	20°420	54906	33	0°665	22°425	54980*	18	7°660	24°235	55166	11	2°339	2°549
54833	8	12°233	20°600	54907	40	0°817	22°776	54981	9	10°492	24°029	55167	9	3°251	2°560
54834	11	12°541	20°493	54908	10	5°014	22°197	54982	12	11°371	24°765	55168	5	4°207	2°741
54835	9	13°111	20°019	54909	10	5°265	22°839	54983	10	11°686	24°782	55169	11	4°951	2°583
54836	11	13°426	20°599	54910	16	5°911	22°677	54984	10	11°825	24°115	55170	12	4°964	2°130
54837	10	13°551	20°525	54911	9	7°350	22°867	54985	9	13°156	24°803	55171*	21	5°598	2°046
54838	20	13°640	20°340	54912	10	8°447	22°435	54986	10	13°220	24°836	55172	11	8°113	2°163
54839	14	13°970	20°533	54913	10	8°943	22°049	54987	11	13°260	24°674	55173	13	8°221	2°680
54840	12	14°130	20°050	54914	8	9°242	22°101	54988	10	13°274	24°774	55174	6	8°533	2°547
54841	16	14°489	20°062	54915	9	9°271	22°011	54989	11	13°507	24°225	55175	7	8°979	2°767
54842	8	15°414	20°025	54916	10	10°265	22°414	54990	9	13°991	24°504	55176*	37	9°091	2°482
54843	10	16°329	20°926	54917	10	10°782	22°935	54991	18	14°077	24°805	55177*	30	9°110	2°343
54844	11	16°442	20°177	54918	11	11°180	22°496	54992*	32	14°601	24°151	55178	4	9°164	2°724
54845	14	16°941	20°943	54919	22	11°950	22°825	54993	8	14°882	24°356	55179	8	9°168	2°542
54846	10	16°962	20°981	54920	14	12°969	22°593	54994	10	15°037	24°909	55180*	29	9°692	2°199
54847	9	17°574	20°737	54921	7	13°630	22°955	54995*	20	15°372	24°993	55181*	56	9°965	2°507
54848	10	17°853	20°292	54922	8	13°873	22°639	54996	8	15°404	24°040	55182*	20	10°155	2°930
54849	11	19°885	20°867	54923	9	13°974	22°083	54997	16	15°486	24°140	55183	4	12°699	2°835
54850	9	20°369	20°477	54924*	10	15°843	22°005	54998	11	15°564	24°649	55184*	39	12°930	2°770
54851	8	20°840	20°079	54925	12	16°480	22°469	54999	19	15°578	24°699	55185	4	13°006	2°492
54852	10	21°250	20°092	54926	10	16°920	22°308	55000	10	15°837	24°189	55186	14	13°131	2°675
54853	12	21°599	20°699	54927	11	17°114	22°316	55001	10	16°265	24°589	55187	17	13°660	2°337
54854	11	21°941	20°593	54928	10	17°729	22°283	55002	11	16°451	24°976	55188	13	15°535	2°066
54855	10	22°205	20°604	54929	9	18°938	22°025	55003	9	17°095	24°724	55189	9	15°834	2°308
54856	9	22°928	20°345	54930*	18	19°120	22°796	55004	8	17°696	24°479	55190	5	17°655	2°835
54857	13	23°210	20°488	54931	10	19°221	22°689	55005	10	17°769	24°105	55191	8	17°689	2°221
54858	16	24°765	20°474	54932	12	19°607	22°196	55006	18	17°891	24°546	55192	4	17°925	2°492
54859	20	24°904	20°283	54933	9	19°611	22°454	55007	12	21°216	24°120	55193	7	19°711	2°296
54860	20	24°938	20°511	54934	11	20°041	22°804	55008	13	21°281	24°538	55194	9	19°766	2°493
54861	18	1°907	21°259	54935	10	20°063	22°063	55009	13	21°929	24°613	55195	5	20°554	2°975
54862	12	3°102	21°623	54936	8	22°119	22°850	55010	21	22°392	24°324	55196	4	20°599	2°036
54863	13	3°142	21°955	54937	29	22°474	22°847	55011	21	22°799	24°274	55197	5	20°629	2°263
54864	12	4°021	21°397	54938	16	22°716	22°218	55012	20	23°085	24°280	55198	8	20°668	2°191
54865	11	4°059	21°351	54939	13	23°216	22°604	55013	19	23°330	24°800	55199	11	20°866	2°835
54866	10	5°059	21°086	54940	21	24°221	22°516	55014	35	23°761	24°792	55200	10	21°661	2°872
54867	10	5°960	21°881	54941	27	1°366	23°087	55015	32	1°697	25°098	55201	5	21°713	2°337
54868	9	7°104	21°951	54942	19	1°394	23°756	55016	20	4°195	25°766	55202	7	22°036	2°439
54869	10	8°139	21°120	54943	9	1°882	23°292	55017	10	7°369	25°956	55203	6	22°634	2°091
54870	8	8°221	21°401	54944	20	3°891	23°767	55018	10	7°370	25°738	55204	7	22°710	2°630
54871	11	8°804	21°349	54945	19	4°406	23°399	55019	12	7°373	25°889	55205	4	22°755	2°446
54872	9	9°181	21°568	54946	12	9°495	23°215	55020	11	8°838	25°919	55206	14	22°794	2°661
54873	20	9°781	21°766	54947	19	10°866	23°964	55021	10	9°067	25°630	55207	5	22°910	2°810
54874	10	10°426	21°120	54948	9	11°164	23°426	55022	11	9°696	25°585	55208	8	23°396	2°908
54875	12	12°026	21°792	54949	10	12°265	23°796	55023	9	9°815	25°109	55209	14	24°045	2°509
54876	11	12°355	21°487	54950	19	12°686	23°569	55024	10	10°182	25°763	55210	4	24°458	2°086
54877	12	12°735	21°458	54951	10	13°505	23°557	55025	17	10°895	25°597	55211	14	24°555	2°934
54878*	10	12°776	21°434	54952	24	13°973	23°317	55026	12	11°064	25°988	55212	16	24°567	2°851
54879	11	12°803	21°570	54953	9	14°309	23°379	55027	20	11°888	25°641	55213	7	24°899	2°150
54880	13	13°410	21°826	54954*	22	15°459	23°347	55028	10	11°946	25°932	55214	13	24°945	2°381
54881*	22	14°549	21°203	54955	10	15°803	23°080	55029	11	13°570	25°914	55215	4	25°276	2°267
54882	10	14°895	21°502	54956	8	15°836	23°660	55030	10	14°049	25°680	55216	12	25°898	2°469
54883	10	15°346	21°230	54957	10	16°144	23°798	55031*	22	14°372	25°994	55217	6	1°359	3°357
54884	8	15°477	21°592	54958	18	16°386	23°217	55032	8	14°727	25°452	55218	14	2°110	3°318
54885	6	15°740	21°549	54959	8	17°121	23°996	55033	10	16°968	25°485	55219*	24	2°371	3°524
54886	9	15°948	21°852	54960	10	18°373	23°448	55034	10	17°678	25°473	55220	5	2°442	3°496
54887	9	16°465	21°825	54961	12	18°476	23°933	55035	20	19°084	25°637	55221	4	3°497	3°867
54888	9	16°536	21°651	54962	12	19°202	23°549	55036	19	19°579	25°212	55222	4	6°244	3°476
54889	13	16°826	21°383	54963	13	19°271	23°169	55037	13	21°143	25°908	55223	13	6°341	3°580
54890	10	17°084	21°459	54964	9	19°289	23°622	55038	16	21°286	25°225	55224	15	7°266	3°489
54891	10	17°369	21°626	54965	9	19°550	23°326	55039	12	21°332	25°257	55225	11	7°545	3°616
54892*	19	17°768	21°978	54966	10	20°525	23°531	55040	20	21°514	25°293	55226	20	8°348	3°929
54893	11	17°882	21°286	54967	13	21°411	23°287	55041	21	24°106	25°012	55227	5	8°851	3°316
54894	10	19°204	21°888	54968	15	21°464	23°666	55042	12	24°716	25°122	55228	7	9°707	3°950
54895	10	19°233	21°391	54969	12	21°628	23°180					55229	14	10°224	3°470
54896	9	19°839	21°313	54970	24	21°885	23°806					55230	4	10°457	3°437

R. A. 19^h 39^m

Plate 2561; 1907 July 16.

Provisional Constants.

A B C
 -00039 +00609 +1684

D E F
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Mag. = 14.5 - 1.02√d

No.	d	x	y
55101	16	0°091	0°384
55102	7	1°726	0°279
55103	6	4°808	0°631
55104*	35	5°046	0°419

55231*	22	10°611	3°278	55305	4	15°859	4°762	55379	8	20°665	5°967	55453	4	7°206	7°221	55527	12	19°059	8°077
55232	8	10°771	3°501	55306	11	16°223	4°096	55380	5	20°694	5°868	55454*	37	7°462	7°248	55528	8	20°779	8°361
55233*	14	10°899	3°245	55307	10	16°760	4°457	55381	28	21°271	5°320	55455	17	7°979	7°680	55529	8	21°163	8°175
55234	4	12°274	3°732	55308	12	17°926	4°028	55382	18	21°580	5°810	55456	18	10°312	7°322	55530	12	21°256	8°882
55235	8	13°146	3°940	55309	7	18°100	4°855	55383	10	21°605	5°379	55457	7	10°584	7°594	55531	4	21°455	8°078
55236	9	13°314	3°161	55310	11	18°197	4°518	55384	4	22°049	5°265	55458	8	10°632	7°620	55532	5	21°460	8°030
55237	4	14°244	3°296	55311	8	18°336	4°254	55385	11	22°396	5°526	55459	9	11°329	7°541	55533	12	21°728	8°922
55238	8	14°821	3°308	55312	8	18°949	4°769	55386	6	22°867	5°479	55460	18	11°990	7°132	55534	8	22°123	8°891
55239	4	15°100	3°194	55313	6	19°033	4°229	55387	11	24°186	5°560	55461	12	12°361	7°510	55535	4	22°569	8°538
55240	10	15°227	3°856	55314	4	19°486	4°189	55388	6	25°899	5°935	55462	10	12°814	7°121	55536	4	22°732	8°702
55241*	31	15°460	3°117	55315	11	19°782	4°674	55389*	14	0°936	6°048	55463	10	14°217	7°490	55537	5	23°074	8°429
55242	5	15°875	3°908	55316	7	19°939	4°530	55390	8	1°423	6°688	55464*	27	14°310	7°534	55538	6	23°755	8°941
55243*	24	16°523	3°921	55317	17	20°104	4°635	55391	7	1°441	6°174	55465*	27	14°351	7°862	55539	4	23°984	8°613
55244*	18	16°776	3°808	55318	6	20°166	4°056	55392	5	2°414	6°540	55466	4	14°437	7°437	55540	12	24°124	8°481
55245*	19	16°918	3°387	55319	8	20°419	4°278	55393	6	2°545	6°638	55467	13	14°549	7°585	55541	7	24°151	8°597
55246	7	16°926	3°993	55320	11	20°850	4°989	55394	4	3°416	6°102	55468	6	14°690	7°218	55542	12	25°272	8°024
55247	13	17°251	3°160	55321	8	20°991	4°438	55395*	30	4°492	6°641	55469	8	15°351	7°464	55543	12	25°455	8°116
55248	4	17°530	3°709	55322	8	21°044	4°376	55396	4	5°829	6°519	55470	4	15°630	7°109	55544	5	25°554	8°711
55249	8	17°600	3°757	55323	4	21°378	4°287	55397	8	6°886	6°630	55471	9	15°779	7°045	55545	18	25°903	8°003
55250	7	18°075	3°264	55324	7	21°455	4°316	55398*	34	7°065	6°733	55472	10	17°370	7°053	55546	12	0°034	9°881
55251	4	18°310	3°898	55325	10	21°659	4°095	55399*	43	8°651	6°408	55473	14	17°721	7°700	55547	8	1°019	9°259
55252	8	18°546	3°972	55326	6	21°995	4°636	55400	8	8°736	6°132	55474*	29	18°496	7°764	55548	5	1°172	9°296
55253	10	18°779	3°411	55327	7	22°252	4°891	55401	9	8°768	6°957	55475	12	19°158	7°840	55549	10	2°002	9°810
55254	10	18°826	3°683	55328	11	22°363	4°945	55402	14	9°041	6°603	55476	8	19°159	7°761	55550	5	2°103	9°640
55255	12	19°086	3°327	55329	10	22°836	4°713	55403	8	10°014	6°519	55477*	27	19°173	7°300	55551	8	2°379	9°077
55256	5	19°273	3°419	55330	8	23°229	4°126	55404	6	10°349	6°836	55478	10	20°790	7°651	55552	8	2°666	9°855
55257	10	19°420	3°176	55331	9	24°905	4°179	55405	9	10°475	6°701	55479	12	21°024	7°267	55553	9	3°039	9°618
55258	16	19°596	3°959	55332	5	25°727	4°227	55406	9	10°658	6°612	55480*	29	21°318	7°638	55554	11	4°707	9°337
55259	11	20°680	3°485	55333	9	0°202	5°986	55407	11	10°811	6°154	55481	8	21°476	7°839	55555	10	5°076	9°806
55260	24	21°769	3°280	55334	5	0°338	5°167	55408	8	11°044	6°503	55482	11	21°563	7°963	55556	4	5°503	9°911
55261	10	21°893	3°849	55335	4	1°262	5°367	55409	9	12°121	6°058	55483	4	21°964	7°227	55557	13	6°898	9°086
55262	9	22°389	3°847	55336	9	2°909	5°794	55410	18	12°279	6°145	55484	4	22°226	7°888	55558	6	7°176	9°095
55263	8	22°973	3°949	55337	11	3°205	5°127	55411	8	12°474	6°275	55485	4	22°417	7°343	55559	10	7°493	9°769
55264	11	23°084	3°608	55338	4	3°207	5°426	55412	7	12°610	6°401	55486	5	23°568	7°660	55560	11	8°091	9°258
55265	17	23°634	3°830	55339	10	3°492	5°434	55413	9	15°091	6°597	55487	11	23°660	7°468	55561	9	8°387	9°740
55266	10	25°018	3°172	55340	5	4°161	5°570	55414	4	15°361	6°899	55488	5	24°305	7°684	55562*	27	9°165	9°245
55267	8	25°404	3°085	55341*	20	4°414	5°926	55415	5	15°399	6°116	55489*	27	24°669	7°980	55563	7	9°237	9°721
55268	10	0°353	4°390	55342	10	5°208	5°144	55416	6	15°632	6°095	55490	4	24°784	7°731	55564	8	9°666	9°277
55269	8	0°604	4°287	55343	4	6°091	5°189	55417	17	15°664	6°243	55491	11	25°265	7°200	55565	10	9°975	9°280
55270	5	2°540	4°050	55344	15	6°785	5°370	55418*	29	15°809	6°475	55492	15	25°511	7°739	55566	14	9°991	9°400
55271	4	3°214	4°036	55345	6	6°800	5°336	55419	7	16°131	6°065	55493	5	25°709	7°224	55567	26	10°422	9°428
55272	4	3°481	4°391	55346	7	6°949	5°360	55420	8	16°944	6°771	55494	4	25°991	7°658	55568	5	10°590	9°994
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55274	14	4°049	4°528	55348	4	7°841	5°848	55422	12	17°316	6°667	55496	5	1°162	8°143	55570*	25	10°851	9°161
55275	14	4°372	4°201	55349	7	8°702	5°335	55423	4	17°522	6°598	55497	9	1°534	8°289	55571	13	12°056	9°356
55276	11	4°766	4°731	55350	12	8°755	5°191	55424	10	17°781	6°984	55498	4	2°480	8°356	55572*	37	13°165	9°172
55277	10	5°222	4°585	55351	9	9°644	5°252	55425	16	17°806	6°961	55499	10	3°621	8°599	55573	5	13°218	9°479
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55279	5	7°856	4°608	55353	6	9°796	5°118	55427	8	18°032	6°731	55501	7	4°761	8°904	55575	4	14°644	9°100
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55281*	22	8°253	4°398	55355	4	10°478	5°761	55429	5	18°559	6°642	55503	9	8°596	8°665	55577	4	15°620	9°395
55282	4	8°449	4°502	55356	11	10°797	5°490	55430	7	19°495	6°619	55504	12	10°006	8°890	55578	5	16°236	9°497
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55285	4	9°200	4°023	55359	6	12°048	5°611	55433	8	20°639	6°626	55507	9	10°566	8°636	55581	7	16°471	9°514
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55287	19	9°756	4°014	55361*	41	12°416	5°254	55435	4	21°401	6°671	55509*	15	12°421	8°671	55583	12	17°629	9°601
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55294	7	12°321	4°474	55368	10	18°178	5°969	55442	11	1°438	7°181	55516	8	15°077	8°251	55590	13	20°409	9°085
55295	8	12°336</																	

55601	7	23°420	9°503	55675	5	25°936	10°879	55749	5	1°828	12°344	55823	12	4°500	13°704	55897	13	6°993	14°992
55602	5	23°871	9°863	55676	6	25°953	10°221	55750	9	2°186	12°943	55824	5	4°912	13°066	55898	7	7°171	14°430
55603	10	24°116	9°139	55677	9	1°051	11°660	55751	11	2°753	12°562	55825	26	6°288	13°628	55899	5	7°406	14°032
55604	12	24°153	9°602	55678	5	1°418	11°136	55752	12	2°836	12°558	55826	6	6°882	13°249	55900	11	7°445	14°709
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55606	9	25°153	9°320	55680	5	1°877	11°381	55754	8	3°487	12°353	55828	10	7°803	13°711	55902	6	8°581	14°036
55607	9	25°267	9°309	55681*	22	1°912	11°123	55755	7	3°669	12°176	55829	6	8°356	13°674	55903	8	8°630	14°439
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55609	4	25°727	9°785	55683*	27	2°191	11°036	55757	12	5°436	12°236	55831	10	9°021	13°739	55905	5	8°856	14°359
55610	4	0°166	10°975	55684	17	2°300	11°854	55758	8	5°447	12°292	55832	6	9°655	13°831	55906	6	8°968	14°039
55611	12	0°213	10°858	55685	8	2°989	11°934	55759	6	6°065	12°625	55833	11	9°802	13°114	55907	7	9°158	14°740
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55613	4	1°226	10°599	55687	10	3°271	11°119	55761	6	6°951	12°012	55835	7	10°356	13°760	55909	4	9°211	14°482
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55615	11	3°881	10°630	55689*	36	3°974	11°798	55763	10	7°985	12°654	55837	4	10°953	13°274	55911	6	10°556	14°294
55616	4	3°911	10°910	55690	5	5°018	11°221	55764	17	9°110	12°666	55838	9	11°290	13°903	55912	13	11°075	14°151
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55619	10	4°051	10°831	55693	5	5°187	11°701	55767	11	10°789	12°555	55841	4	12°682	13°931	55915	5	11°188	14°686
55620	14	4°732	10°637	55694	8	5°198	11°262	55768	5	11°318	12°084	55842	5	13°015	13°715	55916	7	11°285	14°741
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55622	11	6°139	10°830	55696	4	5°535	11°990	55770	8	11°635	12°542	55844	4	14°895	13°498	55918	11	11°637	14°520
55623	5	6°300	10°994	55697	20	5°881	11°172	55771	13	11°689	12°786	55845*	41	15°380	13°920	55919*	40	12°092	14°050
55624	14	6°381	10°369	55698	7	6°362	11°026	55772	5	12°195	12°629	55846	14	15°851	13°568	55920	4	12°566	14°900
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55627	9	9°271	10°264	55701	5	7°263	11°779	55775	6	14°759	12°010	55849	5	17°790	13°274	55923	15	13°937	14°566
55628	4	9°294	10°323	55702	8	7°761	11°412	55776	8	14°891	12°435	55850	7	17°851	13°639	55924	4	14°976	14°892
55629	10	9°816	10°310	55703*	18	7°964	11°971	55777	12	15°204	12°394	55851	5	18°205	13°844	55925	6	15°202	14°251
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55635	11	11°455	10°292	55709*	32	10°518	11°170	55783	4	18°226	12°984	55857*	37	20°973	13°695	55931	19	16°751	14°552
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55638	5	13°721	10°078	55712	10	11°374	11°571	55786	8	19°955	12°706	55860	8	21°759	13°314	55934	13	18°481	14°905
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55652	14	19°710	10°207	55726*	23	19°417	11°209	55800*	34	22°759	12°669	55874	7	24°956	13°314	55948	9	23°248	14°356
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55655	4	21°654	10°347	55729	4	20°060	11°947	55803	13	23°628	12°914	55877	8	25°636	13°360	55951	4	24°178	14°750
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55661	8	22°568	10°083	55735	12	22°498	11°547	55809	7	25°271	12°865	55883	4	3°189	14°862	55957	5	25°757	14°695
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55663	10	23°099	10°382	55737	7	23°203	11°022	55811	15	25°713	12°065	55885							

55971*	19	4°560	15°179	56045	11	25°725	15°268	56119	6	23°168	16°780	56193	10	20°433	17°457	56267	12	19°054	18°128
55972	5	4°645	15°908	56046	4	0°646	16°951	56120	13	23°290	16°213	56194	16	20°975	17°223	56268	4	19°104	18°237
55973	10	5°114	15°517	56047	4	0°975	16°431	56121	5	23°599	16°449	56195	4	21°246	17°961	56269	4	19°253	18°207
55974	9	5°306	15°449	56048	4	1°109	16°437	56122	7	24°044	16°848	56196	11	21°459	17°665	56270*	13	19°627	18°796
55975	5	5°437	15°922	56049	5	1°240	16°911	56123	4	24°528	16°391	56197	4	21°583	17°442	56271	10	20°246	18°148
55976	12	5°493	15°429	56050	4	1°338	16°323	56124	7	24°915	16°945	56198*	33	22°110	17°430	56272	6	21°091	18°219
55977*	17	5°712	15°480	56051	6	1°667	16°721	56125	5	25°023	16°258	56199	8	23°468	17°076	56273	5	21°095	18°812
55978	4	5°757	15°543	56052	5	1°965	16°289	56126	4	25°301	16°954	56200	12	23°796	17°300	56274	4	21°239	18°011
55979	6	5°870	15°441	56053*	22	2°149	16°632	56127	6	25°418	16°289	56201	7	23°799	17°404	56275	9	21°314	18°760
55980	10	6°281	15°074	56054*	14	2°534	16°236	56128	8	25°552	16°758	56202	4	23°992	17°830	56276	10	21°615	18°800
55981	7	6°628	15°073	56055	5	3°368	16°718	56129	12	25°696	16°421	56203	6	24°288	17°628	56277	11	21°701	18°665
55982	10	6°671	15°142	56056	4	4°368	16°134	56130	4	0°164	17°541	56204	4	24°756	17°907	56278	6	22°359	18°962
55983	7	7°318	15°298	56057	5	4°375	16°397	56131	7	0°571	17°775	56205	6	24°845	17°286	56279	5	22°504	18°739
55984	6	7°360	15°495	56058	8	4°416	16°422	56132	8	1°066	17°370	56206	12	24°937	17°495	56280	7	22°985	18°755
55985	5	7°675	15°652	56059	19	4°442	16°159	56133	7	1°858	17°511	56207	16	24°948	17°487	56281	13	23°404	18°595
55986	12	7°731	15°784	56060	12	4°472	16°908	56134	5	2°126	17°424	56208	9	25°378	17°915	56282	5	23°890	18°796
55987	8	8°138	15°349	56061	9	4°488	16°905	56135	6	2°429	17°452	56209	8	25°529	17°468	56283	4	23°928	18°337
55988	11	8°159	15°274	56062	7	4°589	16°189	56136	9	2°683	17°561	56210	10	25°793	17°837	56284	5	24°098	18°045
55989	6	8°574	15°038	56063	7	4°789	16°724	56137	4	3°096	17°367	56211	4	0°013	18°461	56285	4	24°683	18°106
55990	8	9°302	15°111	56064	4	4°801	16°128	56138	11	3°164	17°702	56212	5	0°475	18°801	56286	7	24°730	18°443
55991	9	9°490	15°226	56065	5	5°013	16°046	56139	4	3°848	17°666	56213	7	0°872	18°232	56287	6	24°954	18°641
55992	5	9°744	15°684	56066	5	5°539	16°237	56140	7	3°952	17°606	56214	9	1°133	18°798	56288	5	25°679	18°807
55993	4	10°476	15°917	56067	7	5°689	16°160	56141	16	5°104	17°075	56215	6	2°995	18°234	56289	4	25°924	18°886
55994	14	10°485	15°026	56068	8	7°127	16°521	56142	9	5°695	17°700	56216	5	3°302	18°911	56290	4	0°252	19°490
55995	6	11°378	15°903	56069	7	7°477	16°779	56143*	29	6°241	17°638	56217	7	3°776	18°932	56291	11	0°461	19°727
55996*	22	11°467	15°979	56070	8	7°652	16°174	56144	7	6°585	17°356	56218	9	4°105	18°386	56292	12	1°637	19°258
55997	12	11°893	15°069	56071	6	7°754	16°610	56145	4	6°849	17°096	56219	9	4°161	18°695	56293	6	2°024	19°767
55998	8	11°894	15°380	56072	5	7°911	16°811	56146	16	7°455	17°558	56220	8	4°416	18°294	56294	4	2°096	19°049
55999	13	12°301	15°230	56073	5	8°448	16°969	56147	12	7°512	17°989	56221	6	4°759	18°396	56295	7	2°291	19°401
56000	7	12°389	15°968	56074	4	8°669	16°176	56148	7	7°561	17°105	56222	7	4°983	18°033	56296	5	2°406	19°855
56001	7	12°425	15°730	56075	5	8°771	16°887	56149	8	7°967	17°558	56223	7	5°031	18°884	56297	13	2°609	19°571
56002	8	12°425	15°444	56076	4	9°168	16°020	56150	15	8°469	17°307	56224	14	5°157	18°200	56298	4	2°921	19°607
56003	9	12°856	15°259	56077	13	9°217	16°371	56151	12	8°678	17°204	56225	4	5°429	18°691	56299	9	3°328	19°812
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56006	4	15°652	15°848	56080	4	9°758	16°668	56154	8	9°177	17°653	56228	4	6°037	18°508	56302	13	4°033	19°190
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56034																			

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56725	13	21°469	23°796	56799	5	17°227	24°821	56873	11	16°925	25°701	57021	10	18°289	0°054	57095	8	19°286	2°223
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56734	4	24°263	23°018	56808	16	18°315	24°973	56882	10	19°385	25°045	57030	14	2°234	1°988	57104	12	0°103	3°023
56735	6	24°312	23°517	56809	11	19°180	24°201	56883	4	19°451	25°211	57031*	19	2°849	1°254	57105	8	0°564	3°334
56736	7	24°606	23°218	56810	5	19°261	24°082	56884	5	19°485	25°383	57032	8	4°795	1°531	57106	7	0°951	3°236
56737	8	24°790	23°525	56811	6	19°362	24°110	56885	10	19°758	25°993	57033	10	7°078	1°528	57107	8	1°653	3°328
56738	5	25°285	23°175	56812	8	19°445	24°246	56886	9	20°123	25°008	57034	10	7°274	1°764	57108	10	4°420	3°373
56739	11	25°495	23°750	56813	15	19°532	24°855	56887	8	20°222	25°238	57035	8	9°822	1°059	57109	14	5°306	3°368
56740	5	25°932	23°082	56814	20	19°866	24°124	56888	9	20°834	25°378	57036*	11	11°137	1°290	57110	10	5°741	3°889
56741	11	0°165	24°684	56815	7	20°071	24°519	56889	4	20°836	25°723	57037*	21	11°650	1°096	57111	8	6°583	3°606
56742	10	0°580	24°655	56816	5	20°089	24°389	56890	6	21°070	25°654	57038	8	12°093	1°896	57112	8	7°174	3°722
56743	13	0°586	24°669	56817	6	21°045	24°124	56891*	16	21°071	25°394	57039	10	12°307	1°543	57113	9	7°763	3°053
56744	14	0°944	24°879	56818	9	21°091	24°350	56892	8	21°485	25°677	57040	17	13°258	1°050	57114	14	8°295	3°298
56745	11	1°549	24°974	56819*	26	21°295	24°123	56893	20	21°619	25°205	57041	10	13°329	1°340	57115	9	9°214	3°739
56746	8	1°874	24°311	56820	15	21°404	24°388	56894	7	21°686	25°660	57042	8	14°222	1°757	57116	9	9°239	3°758
56747	4	2°413	24°456	56821	13	21°595	24°760	56895	12	22°688	25°349	57043	10	14°833	1°711	57117	10	9°498	3°370
56748	13	3°711	24°157	56822*	11	22°713	24°186	56896	13	22°736	25°540	57044	16	15°175	1°079	57118	9	9°739	3°451
56749	5	4°091	24°081	56823	7	22°780	24°464	56897	6	23°275	25°691	57045	19	15°898	1°711	57119	8	9°833	3°229
56750	7	4°269	24°060	56824	11	22°836	24°174	56898	9	23°749	25°255	57046	12	16°055	1°325	57120	9	10°532	3°249
56751	8	4°504	24°546	56825	14	23°005	24°907	56899	8	23°789	25°625	57047	9	18°115	1°256	57121	18	10°740	3°740
56752	7	4°548	24°939	56826	4	23°453	24°016	56900	13	24°964	25°602	57048	14	18°216	1°249	57122*	33	11°267	3°174
56753	6	4°809	24°590	56827	5	23°772	24°145	56901	14	25°031	25°173	57049	9	18°519	1°037	57123	9	11°434	3°928
56754	5	4°859	24°917	56828	7	23°841	24°579	56902	9	25°159	25°978	57050	6	18°917	1°597	57124	8	12°001	3°676
56755	7	5°004	24°289	56829	9	23°884	24°013	56903	11	25°568	25°228	57051	10	19°477	1°002	57125	7	12°229	3°432
56756	12	5°401	24°470	56830	7	24°182	24°413					57052*	35	19°669	1°474	57126	8	12°786	3°421
56757	10	5°529	24°022	56831	8	0°376	25°616					57053	10	19°758	1°370	57127*	25	13°150	3°020
56758	9	6°408	24°126	56832	9	2°724	25°962					57054	9	19°933	1°906	57128	11	13°447	3°916
56759	6	6°423	24°641	56833	13	2°869	25°288					57055	8	21°068	1°160	57129	9	13°707	3°250
56760	8	6°684	24°238	56834	26	3°750	25°814					57056	9	23°495	1°680	57130	10	13°803	3°321
56761	5	6°929	24°289	56835	15	3°920	25°135					57057	10	23°905	1°519	57131	10	14°020	3°699
56762	11	7°180	24°104	56836*	14	3°959	25°799					57058	10	24°086	1°235	57132	7	14°713	3°356
56763	6	7°342	24°196	56837	4	4°107	25°129					57059	9	25°408	1°678	57133	10	15°843	3°709
56764	4	7°369	24°215	56838	4	5°712	25°538					57060	12	25°794	1°863	57134	11	15°973	3°145
56765	6	7°564	24°761	56839	6	5°889	25°279					57061	11	0°475	2°539	57135	8	16°189	3°611
56766	4	7°779	24°724	56840	5	6°417	25°367					57062	10	1°437	2°609	57136	9	18°376	3°048
56767	21	8°368	24°890	56841	4	6°664	25°389					57063	10	1°877	2°015	57137	17	19°488	3°045
56768	11	8°728	24°644	56842	8	6°725	25°088					57064	9	2°683	2°915	57138	8	22°672	3°969
56769	5	8°753	24°745	56843	12	6°913	25°548					57065	9	2°755	2°844	57139	10	23°104	3°358
56770	11	10°018	24°441	56844	4	7°348	25°544					57066	10	3°361	2°372	57140	8	24°309	3°948
56771	5	10°703	24°757	56845	5	7°665	25°736					57067	8	3°832	2°610	57141*	19	25°240	3°149
56772	12	10°844	24°186	56846	6	7°797	25°793					57068*	21	5°285	2°909	57142	8	0°469	4°352
56773	5	10°942	24°891	56847	11	8°168	25°829					57069	10	7°239	2°950	57143	7	17°36	4°175
56774	8	10°981	24°882	56848*	17	8°329	25°430					57070	11	8°855	2°556	57144	10	2°681	4°575
56775	15	11°141	24°683	56849	4	9°291	25°318					57071	8	8°955	2°266	57145	7	3°149	4°416
56776	7	11°183	24°642	56850	4	9°832	25°337	</											

57155	10	8°403	4°506	57229	11	17°848	5°921	57303	9	8°695	7°616	57377	8	0°821	9°528	57451	12	25°805	10°897
57156	10	8°433	4°597	57230	9	18°792	5°481	57304	10	8°862	7°880	57378	8	0°936	9°514	57452	10	0°078	11°743
57157	11	8°481	4°626	57231	12	21°951	5°893	57305	10	10°384	7°807	57379	11	2°292	9°892	57453	9	0°527	11°168
57158	9	8°549	4°711	57232	10	22°540	5°340	57306	11	10°386	7°748	57380	10	4°310	9°745	57454	10	1°134	11°251
57159	10	9°053	4°989	57233	15	24°733	5°940	57307	7	10°618	7°379	57381	6	4°972	9°752	57455	7	1°641	11°085
57160	7	9°566	4°159	57234*	38	2°104	6°314	57308	10	11°071	7°311	57382	10	5°340	9°811	57456	10	1°850	11°137
57161	10	10°051	4°168	57235	12	2°210	6°799	57309	12	11°313	7°811	57383	9	6°629	9°700	57457	8	2°007	11°988
57162	20	10°325	4°739	57236	9	2°505	6°085	57310	9	12°636	7°789	57384	10	7°151	9°236	57458	11	2°237	11°419
57163	11	10°340	4°878	57237	8	3°491	6°314	57311	10	13°107	7°381	57385	12	7°341	9°934	57459	10	2°450	11°685
57164	8	10°349	4°293	57238	10	3°915	6°969	57312	11	14°324	7°074	57386*	24	8°375	9°514	57460	12	2°631	11°534
57165	10	10°363	4°060	57239*	40	4°948	6°662	57313	8	14°650	7°528	57387	9	8°734	9°432	57461	8	3°158	11°726
57166	8	10°564	4°343	57240	6	5°774	6°744	57314	9	15°028	7°321	57388	10	9°176	9°896	57462	9	3°831	11°322
57167	7	11°087	4°708	57241	12	5°832	6°519	57315	9	15°180	7°263	57389	20	9°341	9°002	57463	10	4°931	11°140
57168	10	12°095	4°171	57242	8	6°145	6°412	57316	10	15°663	7°619	57390	12	10°583	9°755	57464	18	5°236	11°931
57169	20	12°096	4°154	57243	10	6°154	6°045	57317	9	16°279	7°700	57391	9	12°320	9°477	57465	10	5°269	11°660
57170	10	13°271	4°161	57244	19	7°038	6°138	57318	8	16°683	7°036	57392	9	12°357	9°447	57466*	19	5°506	11°130
57171	9	13°465	4°087	57245	8	7°107	6°450	57319	11	17°839	7°605	57393	20	12°782	9°300	57467	10	5°591	11°540
57172	9	13°570	4°854	57246	10	7°183	6°449	57320	12	18°173	7°969	57394	10	12°996	9°879	57468	10	5°632	11°266
57173	10	13°811	4°851	57247	10	7°315	6°868	57321	10	18°193	7°215	57395	12	16°771	9°216	57469	11	6°190	11°119
57174	9	15°271	4°323	57248	7	7°627	6°406	57322	10	19°797	7°241	57396	9	18°982	9°819	57470	9	6°194	11°603
57175	10	16°917	4°259	57249	10	7°904	6°183	57323	8	19°818	7°401	57397	10	20°374	9°095	57471	10	6°310	11°345
57176	10	16°962	4°044	57250	12	7°995	6°375	57324	12	20°042	7°098	57398	10	21°267	9°311	57472	10	6°686	11°628
57177	9	17°658	4°645	57251	7	8°112	6°241	57325	16	20°659	7°879	57399	11	22°135	9°157	57473	11	7°385	11°469
57178	10	18°098	4°571	57252	10	8°190	6°043	57326	10	20°944	7°618	57400	9	22°746	9°799	57474	9	7°651	11°960
57179	11	18°412	4°395	57253	8	8°336	6°598	57327*	20	21°360	7°078	57401	10	22°926	9°175	57475	12	7°746	11°390
57180	10	18°503	4°589	57254	9	8°435	6°357	57328	9	21°457	7°071	57402	7	1°333	10°436	57476	13	8°286	11°115
57181	10	18°782	4°919	57255	8	8°636	6°436	57329	12	21°610	7°371	57403	10	1°457	10°277	57477	9	10°652	11°340
57182	8	23°323	4°756	57256	9	8°670	6°394	57330	10	22°381	7°100	57404	8	1°898	10°690	57478	11	11°323	11°895
57183	10	23°410	4°869	57257	8	9°551	6°744	57331	10	23°946	7°862	57405	10	2°550	10°076	57479	10	11°794	11°309
57184	12	24°078	4°092	57258	9	9°849	6°036	57332	8	24°192	7°741	57406	9	2°682	10°514	57480	12	12°037	11°110
57185	9	25°187	4°614	57259	10	9°867	6°541	57333	8	24°902	7°130	57407	8	2°905	10°118	57481	10	12°694	11°366
57186	7	25°673	4°936	57260*	40	10°154	6°301	57334	12	25°329	7°405	57408	10	4°118	10°488	57482	10	12°917	11°116
57187	8	1°728	5°164	57261	11	10°189	6°400	57335	10	25°366	7°396	57409	11	4°592	10°038	57483	18	14°780	11°814
57188	8	2°102	5°689	57262	15	10°364	6°307	57336	9	25°400	7°988	57410	12	6°186	10°838	57484	11	15°011	11°512
57189	10	2°263	5°700	57263	9	11°005	6°428	57337*	35	25°992	7°286	57411	11	6°762	10°207	57485*	14	20°980	11°887
57190	9	2°889	5°485	57264*	21	11°152	6°686	57338*	21	0°308	8°188	57412	10	6°922	10°022	57486	10	21°329	11°845
57191	10	2°988	5°479	57265	9	11°577	6°342	57339	10	0°916	8°221	57413	8	6°973	10°691	57487	8	22°389	11°192
57192	8	3°078	5°355	57266	10	11°600	6°202	57340	10	1°093	8°310	57414	10	7°045	10°840	57488*	16	23°031	11°520
57193	10	3°251	5°833	57267	10	11°834	6°663	57341	16	1°554	8°186	57415	9	7°138	10°784	57489	10	23°894	11°761
57194	11	3°755	5°707	57268	8	13°137	6°820	57342	12	1°723	8°585	57416	14	8°166	10°663	57490	9	24°488	11°879
57195	9	4°017	5°600	57269	10	13°671	6°263	57343*	38	2°002	8°249	57417	10	9°137	10°640	57491	10	24°650	11°691
57196	8	4°156	5°039	57270	9	13°893	6°297	57344*	18	2°883	8°770	57418	8	9°370	10°110	57492	12	0°392	12°827
57197	10	4°545	5°724	57271	12	14°408	6°885	57345	12	3°280	8°099	57419	9	9°409	10°095	57493	14	1°440	12°290
57198	8	4°701	5°992	57272	11	14°859	6°448	57346	10	3°417	8°478	57420	7	9°594	10°273	57494	9	2°003	12°886
57199	10	5°036	5°336	57273	10	14°967	6°166	57347	8	3°959	8°711	57421	12	9°757	10°567	57495	8	2°085	12°348
57200	12	5°451	5°003	57274	8	16°408	6°674	57348	11	4°722	8°999	57422	7	10°669	10°074	57496	10	2°375	12°739
57201	15	5°546	5°076	57275	20	16°515	6°259	57349	10	5°630	8°150	57423	13	10°793	10°557	57497	11	2°434	12°104
57202	10	5°701	5°743	57276*	12	16°643	6°948	57350	9	5°805	8°560	57424	6	11°088	10°890	57498	11	2°678	12°305
57203	7	5°830	5°835	57277	9	18°078	6°118	57351	14	6°206	8°077	57425	12	11°212	10°553	57499	12	2°770	12°313
57204	9	6°039	5°185	57278	10	18°337	6°747	57352	10	6°555	8°706	57426	12	12°137	10°623	57500	11	3°335	12°146
57205	10	6°053	5°276	57279	11	19°250	6°824	57353	9	7°158	8°910	57427	11	12°155	10°590	57501	10	3°379	12°423
57206	10	6°229	5°161	57280*	19	21°263	6°860	57354	10	9°070	8°655	57428	10	12°338	10°079	57502	8	3°650	12°935
57207	9	6°481	5°218	57281	10	21°875	6°195	57355	11	11°294	8°756	57429*	33	12°883	10°919	57503	9	3°900	12°434
57208	8	6°897	5°750	57282	10	21°943	6°213	57356	12	11°814	8°764	57430	18	13°142	10°406	57504	10	4°082	12°658
57209	10	7°130	5°599	57283	9	22°526	6°111	57357	10	12°443	8°927	57431	19	13°943	10°779	57505	11	4°365	12°960
57210	9	7°134	5°518	57284	12	23°450	6°689	57358	21	12°505	8°763	57432	12	14°544	10°272	57506*	30	4°904	12°063
57211	10	7°196	5°163	57285*	22	23°671	6°158	57359	7	12°864	8°977	57433	9	14°619	10°196	57507*	21	5°150	12°352
57212	12	7°225	5°287	57286	7	23°726	6°945	57360	11	13°046	8°851	57434	7	15°114	10°523	57508*	27	5°800	12°593
57213	12	7°957	5°975	57287	10	23°800	6°941	57361	10	13°187	8°608	57435	8	15°119	10°230	57509	10	6°424	12°782
57214	8	8°737	5°468	57288	8	25°214	6°401	57362	10	15°358	8°063	57436*	43	16°069	10°827	57510	8	6°506	12°169
57215*	27	9°341	5°964	57289	11	25°500	6°806	57363	7	15°870	8°085	57437*	21	17°098	10°775	57511	10	6°538	12°477
57216	9	9°447	5°343	57290	8	25°893	6°340	57364*	27	16°088	8°176	57438*	23	17°296	10°619	57512	17	6°856	12°003
57217	10	9°752	5°709	57291	10	0°896	7°390	57365	11	16°642	8°386	57439	12	17°450	10°906	57513	10	6°901	12°280
57218	11	10°888	5°442	57292	12	1°153	7°931	57366	6	16°672	8°333	5							

57525	17	13°38'0"	12°55'0"	57599	8	3°9'88"	14°35'9"	57673	17	12°0'17"	15°0'43"	57747	18	0°7'74"	17°7'67"	57821	9	8°8'06"	18°9'18"
57526*	41	13°44'1"	12°7'31"	57600	10	4°0'83"	14°5'94"	57674	8	12°1'92"	15°0'66"	57748	9	1°3'61"	17°7'34"	57822	18	9°4'92"	18°7'55"
57527	10	14°0'82"	12°9'38"	57601	10	4°5'59"	14°3'10"	57675	8	13°0'34"	15°1'05"	57749	10	1°3'71"	17°0'20"	57823	10	10°1'86"	18°3'14"
57528	11	14°1'41"	12°1'49"	57602	17	4°6'35"	14°0'69"	57676	9	13°2'92"	15°1'79"	57750	8	1°8'72"	17°0'75"	57824	11	10°3'03"	18°4'55"
57529	10	15°3'30"	12°6'49"	57603	9	4°6'70"	14°3'64"	57677	15	13°7'73"	15°3'60"	57751	9	2°4'19"	17°8'57"	57825	12	10°9'08"	18°1'77"
57530	21	18°6'57"	12°0'87"	57604	10	4°7'05"	14°9'41"	57678	13	14°1'16"	15°3'66"	57752	11	3°0'98"	17°2'99"	57826	10	12°0'61"	18°8'91"
57531	10	19°5'19"	12°7'44"	57605	9	5°1'70"	14°2'94"	57679	8	14°5'28"	15°8'79"	57753	11	4°8'47"	17°4'21"	57827	12	12°4'24"	18°0'98"
57532	11	20°2'62"	12°7'29"	57606	9	5°2'61"	14°2'50"	57680	10	16°0'91"	15°9'14"	57754	9	5°6'02"	17°4'68"	57828	10	12°7'33"	18°6'92"
57533	9	20°3'01"	12°6'00"	57607	7	5°2'68"	14°1'38"	57681	9	16°1'61"	15°3'33"	57755*	29	6°0'06"	17°1'68"	57829	10	12°9'82"	18°4'92"
57534	12	21°6'26"	12°1'80"	57608	9	5°3'52"	14°8'46"	57682*	38	16°2'92"	15°8'55"	57756	8	6°0'39"	17°1'82"	57830	8	13°1'25"	18°9'06"
57535*	12	22°5'54"	12°2'09"	57609	8	5°5'53"	14°6'48"	57683	10	16°4'57"	15°6'75"	57757	11	6°7'75"	17°2'20"	57831	8	13°6'09"	18°0'87"
57536	9	22°5'88"	12°2'23"	57610	8	5°6'04"	14°3'16"	57684	14	17°0'12"	15°2'84"	57758	10	6°7'90"	17°0'57"	57832	10	13°8'18"	18°2'64"
57537	12	22°7'59"	12°4'78"	57611	20	6°2'00"	14°2'11"	57685	19	17°6'80"	15°9'11"	57759	9	7°0'89"	17°3'06"	57833	20	14°9'00"	18°3'63"
57538	11	22°7'73"	12°8'09"	57612	8	6°2'96"	14°9'77"	57686	12	18°3'28"	15°9'40"	57760	18	7°3'03"	17°9'54"	57834	9	15°3'61"	18°7'87"
57539	8	23°8'46"	12°0'75"	57613	10	6°3'55"	14°5'36"	57687	10	18°4'20"	15°7'90"	57761	9	7°9'88"	17°9'12"	57835	10	15°5'93"	18°3'44"
57540*	20	24°2'81"	12°9'00"	57614	8	6°8'88"	14°5'91"	57688*	25	21°0'31"	15°6'58"	57762	8	8°4'50"	17°6'90"	57836	9	16°3'28"	18°6'00"
57541	10	24°7'78"	12°0'70"	57615	9	6°9'21"	14°6'06"	57689	15	21°2'18"	15°1'50"	57763	9	8°6'04"	17°2'81"	57837	11	16°5'54"	18°5'87"
57542	11	25°3'75"	12°0'47"	57616	14	9°6'27"	14°0'94"	57690	10	21°4'95"	15°5'75"	57764	10	9°6'27"	17°8'81"	57838	10	16°9'52"	18°9'79"
57543	12	25°7'63"	12°3'24"	57617	9	9°9'89"	14°6'66"	57691	8	21°6'80"	15°3'88"	57765	10	10°5'21"	17°7'76"	57839	10	17°0'28"	18°7'35"
57544	10	0°3'50"	13°8'93"	57618	10	10°3'23"	14°0'07"	57692	12	21°7'02"	15°5'58"	57766	20	10°6'19"	17°1'80"	57840	10	17°5'84"	18°5'29"
57545	18	1°1'25"	13°1'96"	57619	11	12°0'04"	14°7'47"	57693	11	22°2'78"	15°1'82"	57767	10	11°3'23"	17°0'76"	57841*	29	17°6'07"	18°1'81"
57546	10	1°1'64"	13°7'92"	57620	10	12°1'46"	14°7'72"	57694	10	22°6'25"	15°9'97"	57768	11	12°4'61"	17°4'65"	57842	8	19°3'32"	18°4'51"
57547	8	2°1'43"	13°4'91"	57621	7	12°4'88"	14°9'48"	57695*	19	22°8'00"	15°9'16"	57769	11	12°5'84"	17°9'25"	57843	10	19°4'87"	18°5'82"
57548	9	2°5'45"	13°6'96"	57622	11	13°7'68"	14°7'29"	57696*	15	22°8'48"	15°0'95"	57770	10	14°0'28"	17°3'18"	57844	16	20°9'51"	18°8'51"
57549	10	2°6'12"	13°4'85"	57623	10	14°0'49"	14°5'74"	57697*	11	23°4'83"	15°7'46"	57771	11	14°1'74"	17°8'61"	57845	8	21°1'15"	18°8'31"
57550*	28	2°6'17"	13°8'44"	57624	8	14°2'24"	14°8'09"	57698	10	23°9'30"	15°6'38"	57772	7	14°4'24"	17°5'19"	57846*	19	21°7'68"	18°9'18"
57551	10	2°8'80"	13°5'80"	57625	12	14°6'11"	14°5'50"	57699	10	23°9'67"	15°4'19"	57773	10	14°4'92"	17°5'64"	57847	7	21°7'81"	18°2'99"
57552	9	2°9'16"	13°4'49"	57626	10	15°1'69"	14°2'65"	57700	11	25°4'25"	15°2'83"	57774	12	14°7'52"	17°4'69"	57848	10	22°2'66"	18°6'70"
57553	13	2°9'54"	13°7'30"	57627*	21	15°6'74"	14°4'48"	57701	9	0°4'63"	16°1'26"	57775	17	15°0'01"	17°1'11"	57849*	30	22°6'54"	18°6'95"
57554	18	3°0'36"	13°9'31"	57628	8	16°8'92"	14°7'74"	57702	11	1°5'10"	16°6'76"	57776	20	15°1'91"	17°2'19"	57850	11	23°1'81"	18°3'28"
57555	11	3°2'38"	13°7'45"	57629	10	17°3'60"	14°7'92"	57703	10	2°8'85"	16°7'32"	57777	10	15°2'96"	17°5'83"	57851	10	23°5'28"	18°5'75"
57556	10	3°4'87"	13°9'91"	57630*	29	17°3'98"	14°2'29"	57704	10	3°2'55"	16°1'68"	57778	8	15°4'62"	17°3'49"	57852	9	24°5'10"	18°3'66"
57557	12	4°1'63"	13°5'11"	57631	10	17°5'19"	14°0'12"	57705	9	3°5'48"	16°2'22"	57779	9	15°6'43"	17°6'18"	57853	10	25°3'70"	18°4'00"
57558	12	4°1'91"	13°9'33"	57632*	33	18°1'92"	14°2'80"	57706	10	3°8'22"	16°8'36"	57780	10	16°3'63"	17°6'96"	57854	10	0°5'79"	19°7'92"
57559	10	4°2'76"	13°9'22"	57633	10	18°7'69"	14°2'15"	57707	11	4°0'24"	16°3'33"	57781	9	16°7'09"	17°4'01"	57855	10	1°2'54"	19°3'30"
57560	11	5°1'62"	13°9'94"	57634	9	19°1'77"	14°8'00"	57708	10	4°0'24"	16°3'34"	57782	10	17°2'95"	17°6'33"	57856	12	1°4'77"	19°7'36"
57561	9	5°2'09"	13°7'35"	57635	10	19°2'63"	14°8'59"	57709	9	4°5'54"	16°3'44"	57783	7	17°6'83"	17°3'12"	57857	11	1°5'42"	19°8'56"
57562	12	5°3'54"	13°2'94"	57636	9	20°8'28"	14°3'15"	57710	9	5°1'32"	16°5'03"	57784	10	18°3'58"	17°5'11"	57858	17	1°5'82"	19°9'88"
57563	12	6°8'35"	13°2'23"	57637	8	21°3'90"	14°1'24"	57711	9	5°6'18"	16°8'08"	57785	9	18°3'82"	17°7'80"	57859	8	2°2'40"	19°4'80"
57564	10	7°7'00"	13°9'25"	57638	10	21°4'36"	14°6'07"	57712*	38	5°6'84"	16°8'24"	57786	8	18°4'24"	17°7'68"	57860	12	3°4'19"	19°7'16"
57565	9	8°2'69"	13°8'78"	57639	8	22°0'19"	14°7'92"	57713	10	5°6'99"	16°1'54"	57787	14	19°2'52"	17°4'51"	57861	12	3°4'73"	19°9'26"
57566	8	12°9'42"	13°4'93"	57640*	12	22°5'20"	14°5'23"	57714	11	5°7'23"	16°8'23"	57788	12	20°1'32"	17°2'42"	57862	9	3°8'20"	19°1'58"
57567	9	12°9'99"	13°3'87"	57641	10	22°8'03"	14°1'20"	57715	10	5°8'17"	16°8'01"	57789	20	20°1'84"	17°5'31"	57863	8	3°9'11"	19°8'90"
57568	10	13°0'81"	13°6'59"	57642	11	24°4'61"	14°8'01"	57716	9	5°8'70"	16°2'57"	57790	10	21°2'62"	17°4'77"	57864*	21	4°7'14"	19°6'32"
57569	7	13°3'37"	13°2'12"	57643	12	24°4'78"	14°8'22"	57717	10	5°8'72"	16°6'56"	57791	7	22°1'07"	17°3'35"	57865	10	4°9'47"	19°5'00"
57570	10	13°3'81"	13°7'43"	57644	8	25°4'10"	14°5'34"	57718	12	6°1'34"	16°9'60"	57792*	21	22°5'65"	17°4'46"	57866	10	5°4'36"	19°5'88"
57571	9	14°1'32"	13°7'39"	57645*	23	0°7'39"	15°8'24"	57719	10	6°5'26"	16°1'94"	57793	8	22°6'02"	17°7'09"	57867	10	5°6'65"	19°3'29"
57572	10	14°1'72"	13°6'50"	57646	11	1°5'17"	15°5'11"	57720	17	6°7'74"	16°4'64"	57794	8	24°7'21"	17°2'00"	57868	10	5°7'33"	19°4'72"
57573	9	15°0'22"	13°3'15"	57647	10	2°0'81"	15°2'30"	57721*	19	7°0'54"	16°8'63"	57795*	33	24°9'24"	17°0'96"	57869	10	6°0'70"	19°0'63"
57574*	33	15°0'42"	13°8'13"	57648	12	2°1'27"	15°0'90"	57722	10	7°3'25"	16°1'40"	57796	10	24°9'77"	17°2'05"	57870	8	6°5'22"	19°7'43"
57575	11	15°1'07"	13°2'28"	57649	8	3°7'30"	15°8'76"	57723	10	7°9'02"	16°9'19"	57797	8	25°3'16"	17°2'29"	57871	8	7°8'01"	19°9'97"
57576	9	15°5'70"	13°5'64"	57650	10	3°8'13"	15°5'42"	57724	12	7°9'79"	16°7'01"	57798	8	0°5'77"	18°7'33"	57872	9	8°2'15"	19°5'04"
57577	12	15°7'31"	13°1'30"	57651	6	3°9'23"	15°2'82"	57725	8	8°0'78"	16°9'58"	57799	9	1°2'17"	18°1'87"	57873	10	8°2'52"	19°7'52"
57578	10	16°0'88"	13°3'34"	57652	8	3°9'77"	15°1'68"	57726	20	9°7'23"	16°9'80"	57800	10	1°6'34"	18°1'03"	57874	9	8°5'93"	19°6'52"
57579	10	16°4'21"	13°2'12"	57653	10	4°1'52"	15°5'10"	57727	20	11°1'14"	16°9'69"	57801	8	2°0'06"	18°7'31"	57875	8	9°0'91"	19°4'65"
57580	9	16°8'30"	13°8'24"	57654	11	4°6'09"	15°2'22"	57728	10	11°3'06"	16°3'42"	57802	12	2°8'92"	18°2'58"	57876	8	9°1'07"	19°3'78"
57581*	21	18°3'83"	13°6'61"	57655	10	4°7'25"	15°8'09"	57729	12	11°7'25"	16°1'31"	57803	8	3°6'16"	18°4'98"	57877	12	10°7'87"	19°9'23"
57582	11	19°2'59"	13°6'79"	57656	8	5°1'36"	15°1'91"	57730	19	11°7'41"	16°9'94"	57804	10	3°9'63"	18°5'19"	57878	7	11°0'67"	19°4'35"
57583*	20	19°5'98"	13°8'05"	57657	10	5°8'76"	15°9'00"	57731	11	13°6'51"	16°0'21"	57805	10	4°1'61"	18°7'40"	57879	10	11°3'02"	19°2'00"
57584	10	19°8'80"	13°3'52"	57658	11	5°9'58"</													

57895	10	25'444	19'060	57969	10	8'220	21'073	58043	10	22'032	22'349	58117	8	15'271	24'761	58211	8	15'441	0'607
57896	9	0'116	20'230	57970	10	8'307	21'885	58044	20	22'270	22'148	58118	9	16'688	24'903	58212	8	16'683	0'649
57897	11	0'885	20'680	57971	10	8'870	21'930	58045	8	22'895	22'461	58119	10	17'749	24'511	58213	12	17'271	0'622
57898	9	1'373	20'167	57972	12	8'974	21'076	58046	7	23'508	22'159	58120	12	17'817	24'439	58214	9	20'456	0'560
57899	14	1'829	20'615	57973*	19	9'131	21'686	58047	9	23'946	22'171	58121	9	18'176	24'606	58215	10	21'151	0'593
57900	12	2'026	20'051	57974	10	9'341	21'948	58048	9	0'252	23'991	58122	10	18'252	24'331	58216	9	22'604	0'995
57901	10	3'368	20'601	57975	15	9'440	21'491	58049	8	2'732	23'034	58123	9	18'589	24'763	58217	15	24'392	0'705
57902	8	4'347	20'615	57976	10	9'616	21'056	58050	10	3'773	23'676	58124	10	20'338	24'288	58218	15	25'005	0'320
57903	10	4'599	20'907	57977	12	9'793	21'270	58051	10	3'893	23'060	58125	13	21'277	24'338	58219*	20	1'164	1'321
57904	8	5'143	20'664	57978	10	10'152	21'529	58052	8	4'629	23'574	58126	10	22'200	24'155	58220	8	2'334	1'538
57905	10	5'869	20'494	57979	12	10'341	21'323	58053	8	5'295	23'053	58127	11	22'767	24'247	58221	10	3'440	1'723
57906	10	6'070	20'452	57980*	25	10'577	21'902	58054	9	6'486	23'075	58128*	28	23'338	24'371	58222	14	6'315	1'986
57907	13	6'285	20'448	57981	10	11'228	21'679	58055	10	6'617	23'019	58129	11	23'563	24'265	58223	9	7'723	1'356
57908	11	6'652	20'082	57982	12	11'309	21'482	58056	10	7'631	23'201	58130*	20	24'973	24'330	58224	10	8'313	1'245
57909	10	7'284	20'466	57983	8	12'010	21'961	58057	12	8'129	23'163	58131	9	25'011	24'957	58225	8	8'606	1'844
57910	10	7'331	20'765	57984	9	12'383	21'821	58058	10	8'196	23'381	58132	9	0'956	25'947	58226	7	9'343	1'039
57911	8	7'565	20'172	57985	10	13'830	21'254	58059	12	8'342	23'020	58133	11	1'015	25'513	58227	8	10'460	1'200
57912	10	7'573	20'484	57986	10	14'418	21'490	58060	10	8'652	23'209	58134	8	1'557	25'558	58228	8	18'076	1'138
57913	7	7'618	20'767	57987	9	14'445	21'614	58061	10	9'934	23'642	58135	12	3'526	25'229	58229	9	18'085	1'619
57914	10	7'767	20'035	57988*	47	15'100	21'642	58062	10	10'069	23'150	58136	11	3'537	25'735	58230	9	21'316	1'318
57915	9	7'988	20'101	57989	11	15'674	21'554	58063	8	10'749	23'646	58137	10	3'753	25'202	58231	12	21'659	1'935
57916	10	9'778	20'064	57990	11	16'659	21'334	58064	11	10'949	23'111	58138	10	4'956	25'523	58232	10	22'704	1'325
57917	9	10'201	20'131	57991	10	17'539	21'755	58065	8	11'603	23'438	58139	8	5'301	25'384	58233	11	24'770	1'789
57918	8	10'380	20'803	57992	10	17'593	21'074	58066	9	11'782	23'880	58140	10	7'860	25'145	58234	11	1'454	2'204
57919	10	10'583	20'081	57993	15	17'947	21'002	58067	15	12'203	23'590	58141	9	7'982	25'571	58235	8	6'066	2'639
57920	19	10'755	20'166	57994	12	18'089	21'790	58068	7	12'237	23'179	58142	12	8'842	25'653	58236	9	8'796	2'317
57921	12	10'788	20'050	57995	10	18'512	21'043	58069	10	13'901	23'289	58143*	29	10'324	25'301	58237	8	13'570	2'929
57922	8	11'596	20'592	57996	14	18'527	21'148	58070*	30	14'099	23'634	58144	8	10'724	25'576	58238	10	13'842	2'787
57923	9	11'683	20'021	57997	9	18'681	21'864	58071	10	14'392	23'584	58145	11	11'841	25'948	58239	10	15'060	2'956
57924	10	12'334	20'349	57998	10	19'636	21'845	58072	9	15'073	23'116	58146	18	14'306	25'770	58240	8	15'579	2'156
57925	9	12'373	20'404	57999	11	20'257	21'866	58073	9	16'412	23'309	58147	9	14'731	25'315	58241	7	16'474	2'255
57926	10	12'501	20'074	58000	10	20'554	21'420	58074	10	16'630	23'997	58148	10	16'061	25'232	58242	12	16'756	2'104
57927	14	13'189	20'542	58001	11	21'348	21'972	58075	10	17'032	23'853	58149	8	16'103	25'202	58243	7	17'102	2'840
57928	10	13'218	20'668	58002*	19	23'056	21'603	58076	11	17'245	23'350	58150	7	18'337	25'175	58244	9	17'430	2'814
57929*	21	13'257	20'309	58003	13	23'729	21'726	58077	10	18'766	23'569	58151	20	21'925	25'988	58245	8	18'344	2'881
57930	10	13'923	20'823	58004	14	24'206	21'371	58078	18	19'609	23'071	58152	12	22'143	25'479	58246*	22	18'886	2'648
57931	16	14'033	20'879	58005*	20	25'657	21'547	58079	10	20'931	23'554	58153	10	22'674	25'185	58247	8	22'652	2'659
57932	9	14'061	20'658	58006	11	25'947	21'894	58080*	9	22'233	23'863	58154	10	23'092	25'180	58248	8	22'853	2'314
57933	8	14'277	20'642	58007	10	0'098	22'055	58081	10	24'186	23'404	58155	12	24'023	25'723	58249	8	23'242	2'256
57934*	21	15'265	20'259	58008	9	1'258	22'471	58082	8	24'699	23'276	58156	12	24'703	25'850	58250*	42	24'263	2'557
57935	10	15'896	20'023	58009	11	1'811	22'599	58083	9	25'436	23'875	58157	7	24'964	25'149	58251	13	24'912	2'406
57936	15	16'063	20'187	58010	10	1'910	22'266	58084	10	1'454	24'066					58252	11	25'798	2'190
57937	10	16'477	20'202	58011	10	2'303	22'185	58085*	30	2'016	24'022					58253*	21	0'922	3'500
57938	11	17'249	20'023	58012	7	2'524	22'611	58086	9	2'073	24'402					58254*	22	5'799	3'840
57939	8	18'712	20'774	58013	8	2'611	22'565	58087	8	2'868	24'343					58255	8	7'061	3'949
57940	11	19'046	20'285	58014	9	3'464	22'477	58088	13	4'002	24'559					58256	8	7'265	3'274
57941	10	19'708	20'941	58015	20	4'664	22'811	58089	10	4'294	24'830					58257*	31	7'442	3'838
57942	12	19'808	20'379	58016	9	5'356	22'928	58090	19	4'405	24'250					58258	8	8'756	3'871
57943	9	19'840	20'968	58017	8	6'078	22'082	58091	8	5'633	24'298					58259	10	9'031	3'240
57944	8	20'666	20'511	58018	9	7'293	22'204	58092	10	6'066	24'897					58260	18	10'530	3'549
57945	10	22'317	20'190	58019	10	7'490	22'883	58093	8	6'223	24'604					58261	8	10'891	3'906
57946	10	25'233	20'659	58020	9	8'087	22'125	58094	8	6'303	24'636					58262	9	11'909	3'271
57947	9	0'316	21'925	58021	10	9'092	22'440	58095	11	6'311	24'896					58263	8	12'967	3'471
57948	8	0'421	21'862	58022	9	9'878	22'113	58096*	21	6'429	24'948					58264	10	13'828	3'495
57949	8	0'663	21'672	58023	10	10'153	22'741	58097	8	6'479	24'301					58265	11	13'944	3'082
57950	10	0'989	21'315	58024	10	10'165	22'707	58098	10	6'590	24'999					58266	8	15'141	3'084
57951	18	1'146	21'175	58025	9	10'449	22'836	58099	11	7'240	24'848					58267	10	17'159	3'434
57952	7	2'173	21'502	58026	8	11'589	22'567	58100	8	7'331	24'282					58268*	20	18'962	3'273
57953	8	2'494	21'795	58027	10	11'613	22'300	58101	10	8'430	24'558					58269*	32	20'372	3'593
57954	9	2'632	21'520	58028	19	12'140	22'108	58102	10	8'528	24'911					58270	7	22'684	3'952
57955	10	3'076	21'555	58029	8	12'247	22'250	58103	8	8'533	24'455					58271	8	23'158	3'094
57956	8	3'098	21'496	58030	10	12'329	22'978	58104	12	8'806	24'393					58272	8	25'991	3'465
57957	11	3'523	21'071	58031	9	12'506	22'422	58105	10	8'847	24'217					58273	9	3'919	4'770
57958	7	3'637	21'559	58032	10	12'525	22'460	58106	8	8'932	24'770					58274	8	5'668	4'347
57959	9	3'823	21'804	58033	18	12'611	22'578	58107	12	9'792	24'643					58275	12	7'596	4'046
57960	10	4'223	21'285	58034	8	12'691	22'374	58108*	21										

58285	8	11°583	4°510	58359	12	8°023	7°872	58433	12	2°348	11°851	58507*	8	8°421	14°826	58581*	21	20°307	16°485
58286	9	11°653	4°791	58360	7	8°428	7°433	58434	21	3°702	11°415	58508*	19	10°177	14°022	58582	11	20°474	16°116
58287	8	12°229	4°951	58361	7	8°953	7°189	58435	8	4°838	11°739	58509	8	10°526	14°858	58583	8	21°196	16°231
58288	7	12°365	4°718	58362	8	14°194	7°876	58436	10	5°430	11°487	58510	8	10°697	14°429	58584	17	22°745	16°349
58289	9	13°316	4°216	58363	9	16°462	7°225	58437	18	5°595	11°828	58511	7	11°383	14°896	58585	9	23°784	16°443
58290	10	13°861	4°968	58364	12	17°345	7°848	58438	7	5°792	11°963	58512	10	11°530	14°930	58586	8	24°023	16°606
58291	8	15°852	4°117	58365	8	17°653	7°499	58439	9	5°811	11°158	58513*	22	11°768	14°123	58587	15	24°126	16°397
58292	9	16°863	4°346	58366*	20	18°467	7°240	58440	8	6°048	11°172	58514	9	12°320	14°345	58588*	47	0°833	17°457
58293	7	17°179	4°855	58367	8	21°740	7°116	58441	9	12°149	11°978	58515	12	16°334	14°007	58589	8	0°889	17°564
58294	8	21°733	4°876	58368	12	22°523	7°751	58442	8	12°675	11°701	58516	8	18°322	14°850	58590	9	1°690	17°293
58295	8	24°622	4°976	58369	8	22°940	7°188	58443	8	16°288	11°975	58517	7	18°868	14°330	58591	8	3°509	17°336
58296	12	1°789	5°641	58370	9	24°286	7°399	58444	8	17°727	11°673	58518	8	21°300	14°983	58592*	39	5°554	17°158
58297	7	3°368	5°715	58371*	24	24°558	7°762	58445	8	18°773	11°273	58519	19	21°318	14°448	58593	8	5°934	17°949
58298	9	3°694	5°783	58372	9	25°092	7°658	58446	7	20°525	11°250	58520	10	22°412	14°917	58594	8	10°075	17°066
58299	7	4°098	5°704	58373	7	1°159	8°340	58447	12	24°639	11°336	58521	11	24°103	14°099	58595	14	10°141	17°938
58300	8	6°083	5°209	58374	8	3°447	8°240	58448*	31	25°314	11°117	58522	12	25°147	14°280	58596	8	10°952	17°310
58301	12	7°425	5°025	58375	8	3°794	8°807	58449	8	0°472	12°053	58523	9	25°526	14°444	58597	12	11°394	17°604
58302	9	8°626	5°800	58376	9	4°560	8°310	58450	10	1°200	12°399	58524	11	25°596	14°491	58598	12	14°177	17°445
58303	11	9°548	5°617	58377	12	4°892	8°376	58451	13	1°597	12°669	58525	8	0°332	15°168	58599	8	15°066	17°812
58304	9	9°682	5°804	58378	7	6°378	8°409	58452	7	2°067	12°266	58526	11	0°350	15°187	58600	15	15°107	17°743
58305	10	10°672	5°385	58379	8	7°039	8°113	58453	9	4°046	12°055	58527	12	1°303	15°634	58601	8	15°481	17°365
58306	8	11°423	5°661	58380	7	7°484	8°363	58454	8	5°702	12°301	58528	8	2°260	15°030	58602*	20	15°998	17°642
58307	12	12°498	5°696	58381	8	7°525	8°421	58455*	12	6°052	12°600	58529	8	2°697	15°579	58603	7	16°257	17°136
58308	8	14°792	5°975	58382	9	9°063	8°039	58456	16	7°224	12°499	58530	9	2°832	15°382	58604	9	16°275	17°137
58309	8	14°851	5°337	58383	8	9°740	8°233	58457*	22	8°268	12°651	58531	8	3°462	15°391	58605	8	18°874	17°782
58310*	20	15°814	5°299	58384	7	9°788	8°083	58458	9	8°817	12°382	58532	12	5°644	15°495	58606*	18	20°268	17°620
58311	8	18°048	5°158	58385	8	10°322	8°822	58459	10	10°029	12°720	58533	7	5°688	15°046	58607	8	20°491	17°385
58312	16	20°861	5°198	58386	9	10°361	8°540	58460	7	12°446	12°740	58534	12	6°372	15°237	58608	9	22°118	17°127
58313	8	21°277	5°157	58387*	22	11°359	8°602	58461	9	16°487	12°410	58535	8	6°441	15°439	58609	8	22°420	17°800
58314	12	21°373	5°002	58388	10	11°383	8°648	58462	10	16°542	12°434	58536*	21	6°899	15°398	58610	14	23°411	17°853
58315	8	23°288	5°260	58389	9	12°075	8°332	58463	8	17°483	12°187	58537	10	6°932	15°496	58611	10	24°430	17°284
58316	13	23°800	5°724	58390	8	14°504	8°027	58464	9	19°495	12°349	58538	7	7°685	15°273	58612	8	1°302	18°755
58317	8	24°514	5°506	58391	9	17°119	8°337	58465*	21	23°102	12°208	58539	8	8°338	15°015	58613	8	2°458	18°479
58318	8	24°633	5°108	58392	8	20°108	8°812	58466	7	23°112	12°973	58540*	14	8°752	15°322	58614*	44	3°057	18°231
58319	18	0°459	6°299	58393	7	20°935	8°755	58467	8	23°258	12°333	58541*	20	9°246	15°834	58615	8	4°726	18°534
58320	10	2°054	6°253	58394	9	21°393	8°814	58468*	22	0°119	13°268	58542	9	10°490	15°485	58616	12	4°734	18°383
58321	10	2°983	6°856	58395	8	21°968	8°366	58469	20	1°192	13°595	58543	7	10°996	15°528	58617	20	5°117	18°338
58322	9	3°048	6°666	58396	12	22°548	8°506	58470	11	2°378	13°635	58544	8	11°260	15°503	58618	8	6°652	18°702
58323	22	7°511	6°909	58397*	21	23°275	8°417	58471	8	2°895	13°406	58545	8	11°623	15°355	58619	12	6°922	18°047
58324	11	10°123	6°434	58398	8	23°374	8°580	58472	21	3°282	13°722	58546	7	12°249	15°060	58620	8	8°308	18°252
58325	9	10°571	6°041	58399	8	24°103	8°734	58473	8	3°365	13°495	58547	8	15°524	15°053	58621	8	9°565	18°933
58326	7	10°999	6°935	58400	10	24°314	8°351	58474	9	3°708	13°721	58548	8	16°118	15°394	58622*	22	9°984	18°586
58327	12	11°286	6°617	58401	21	24°908	8°588	58475	14	4°293	13°805	58549	17	16°269	15°778	58623	11	10°013	18°747
58328	8	11°327	6°584	58402	14	1°929	9°055	58476	7	4°642	13°510	58550	7	16°615	15°852	58624	13	10°016	18°106
58329*	25	11°548	6°577	58403	22	3°214	9°753	58477	9	5°022	13°470	58551	8	16°964	15°664	58625	8	10°349	18°038
58330*	65	12°694	6°666	58404	21	3°470	9°152	58478	8	5°167	13°885	58552*	45	17°332	15°822	58626	21	10°468	18°967
58331*	21	13°067	6°789	58405	8	3°830	9°426	58479	9	7°752	13°733	58553	8	17°816	15°248	58627	8	10°476	18°348
58332	10	13°298	6°285	58406	8	6°624	9°041	58480	8	8°243	13°498	58554	9	20°496	15°813	58628	7	10°499	18°827
58333	8	14°882	6°802	58407	7	9°917	9°020	58481	8	10°574	13°866	58555	8	20°575	15°867	58629	8	10°732	18°926
58334	7	15°698	6°251	58408	8	10°091	9°227	58482	7	13°106	13°876	58556	12	21°266	15°675	58630*	10	10°943	18°885
58335	20	15°786	6°259	58409*	20	10°447	9°407	58483	7	13°358	13°234	58557	7	23°559	15°055	58631*	20	12°400	18°931
58336	7	16°694	6°688	58410	20	12°562	9°895	58484	10	14°420	13°468	58558	8	23°643	15°493	58632	12	13°703	18°525
58337	8	17°199	6°729	58411	8	13°383	9°849	58485	8	14°561	13°782	58559	9	2°495	16°339	58633	9	13°703	18°253
58338	9	18°158	6°798	58412	9	13°972	9°478	58486	8	15°207	13°191	58560	8	3°352	16°173	58634	7	13°824	18°363
58339	7	19°543	6°755	58413	13	17°651	9°432	58487	7	16°228	13°804	58561	10	3°486	16°816	58635	8	13°964	18°560
58340	8	22°959	6°337	58414	10	21°130	9°322	58488*	32	17°867	13°322	58562	8	3°670	16°297	58636	10	16°664	18°493
58341*	21	23°265	6°786	58415	8	1°436	10°579	58489	12	18°231	13°025	58563*	22	5°070	16°058	58637	8	16°682	18°969
58342	9	23°293	6°985	58416	9	2°724	10°015	58490	7	18°873	13°531	58564	9	5°517	16°210	58638	12	17°396	18°380
58343	8	25°105	6°809	58417	8	3°825	10°829	58491	10	19°080	13°760	58565	8	5°696	16°213	58639	14	18°406	18°116
58344	11	25°227	6°282	58418	7	4°051	10°410	58492	9	20°808	13°849	58566	12	7°239	16°588	58640	8	19°287	18°466
58345	12	25°563	6°904	58419	10	5°521	10°007	58493	12	22°158	13°958	58567	9	7°283	16°290	58641	8	19°385	18°586
58346	8	0°651	7°488	58420	8	6°026	10°398	58494	14	22°437	13°781	58568	8	7°834	16°656	58642	9	20°199	18°949
58347	12	1°079	7°755	58421	7	8°711	10°169	58495	10	23°980	13°247	58569	8	8°150	16°223	58643*	10	20°389	18°554
58348	8	1°114	7°749	58422	12	9°303													

58655	11	9'423	19'590	58729	7	14'635	22'415	58857	9	13'263	2'690	58931	10	20'573	6'513
58656	8	9'692	19'961	58730*	16	15'708	22'142	58858	8	13'758	2'681	58932	8	21'368	6'427
58657	10	10'425	19'760	58731	12	16'067	22'953	58859	12	14'631	2'215	58933	9	21'458	6'408
58658	8	13'202	19'316	58732	10	18'258	22'897	58860	8	16'387	2'409	58934	10	21'570	6'375
58659	7	13'695	19'843	58733	14	21'607	22'340	58861*	20	16'638	2'665	58935	15	23'509	6'046
58660	8	14'042	19'899	58734	8	22'113	22'420	58862	11	18'277	2'630	58936*	30	0'399	7'883
58661	10	14'817	19'871	58735	8	25'145	22'458	58863	10	18'872	2'395	58937	9	0'929	7'766
58662*	22	15'942	19'485	58736	9	4'061	23'032	58864	12	19'455	2'777	58938	11	1'393	7'007
58663*	20	19'321	19'023	58737	11	5'151	23'225	58865	9	19'771	2'287	58939	10	2'057	7'466
58664	8	21'339	19'737	58738	14	5'337	23'134	58866	12	19'807	2'345	58940	12	2'431	7'874
58665*	9	22'348	19'238	58739	12	5'635	23'752	58867	12	19'847	2'600	58941*	30	2'605	7'780
58666	9	0'069	20'222	58740	15	7'051	23'317	58868	9	21'749	2'861	58942	9	3'510	7'829
58667	7	3'315	20'278	58741	9	8'878	23'720	58869	10	22'374	2'023	58943	19	3'664	7'233
58668	8	4'040	20'715	58742	10	9'046	23'971	58870	11	25'337	2'622	58944	9	4'259	7'914
58669*	47	4'453	20'372	58743	9	9'502	23'945	58871	10	1'762	3'559	58945*	40	7'422	7'289
58670	8	5'838	20'727	58744	12	11'035	23'771	58872	9	2'438	3'207	58946	10	7'691	7'641
58671	7	7'963	20'836	58745	8	12'248	23'077	58873	11	6'045	3'191	58947	7	9'182	7'206
58672	8	7'971	20'661	58746	12	12'411	23'791	58874	10	11'144	3'643	58948	11	9'320	7'077
58673	11	8'334	20'805	58747*	32	12'916	23'448	58875	12	13'049	3'413	58949	12	9'699	7'037
58674	8	9'077	20'878	58748*	14	14'387	23'394	58876	8	16'721	3'712	58950	16	10'093	7'851
58675	10	9'341	20'811	58749	9	14'526	23'788	58877	11	17'533	3'698	58951	12	10'143	7'109
58676	9	9'703	20'402	58750	8	17'099	23'162	58878	8	18'452	3'591	58952	13	11'392	7'640
58677	11	10'579	20'069	58751	8	17'435	23'001	58879	18	18'747	3'895	58953	11	11'483	7'419
58678	9	10'773	20'649	58752	9	21'958	23'893	58880	8	19'845	3'524	58954	10	11'658	7'506
58679	7	10'958	20'528	58753	11	22'694	23'658	58881	17	19'959	3'835	58955*	21	13'696	7'862
58680	8	13'380	20'648	58754	15	24'742	23'225	58882*	40	22'127	3'717	58956	12	13'995	7'442
58681*	20	13'430	20'352	58755*	21	1'000	24'695	58883	29	24'897	3'948	58957	11	14'564	7'535
58682	8	14'752	20'019	58756	11	2'094	24'193	58884	9	2'001	4'607	58958	9	15'113	7'258
58683	10	15'631	20'112	58757	9	2'945	24'609	58885	20	5'370	4'111	58959	10	16'018	7'281
58684	21	16'122	20'156	58758	8	6'075	24'172	58886	12	5'598	4'011	58960	8	16'572	7'085
58685	8	17'490	20'092	58759	12	6'557	24'725	58887	10	5'700	4'608	58961	11	17'062	7'908
58686	8	18'727	20'747	58760	9	6'783	24'605	58888	12	6'106	4'484	58962	11	17'349	7'126
58687*	20	19'692	20'432	58761	12	7'316	24'995	58889	11	10'238	4'799	58963	18	18'550	7'187
58688	8	23'278	20'039	58762*	13	8'184	24'403	58890	20	10'613	4'091	58964	8	19'144	7'091
58689	11	24'217	20'466	58763	8	9'464	24'845	58891	10	10'748	4'608	58965	11	21'638	7'297
58690	20	24'872	20'141	58764*	14	9'613	24'753	58892	9	12'632	4'986	58966	12	25'130	7'744
58691*	28	25'387	20'945	58765	9	9'722	24'476	58893	8	12'882	4'214	58967	13	25'500	7'987
58692	16	25'881	20'374	58766	12	10'708	24'825	58894	12	14'098	4'723	58968	10	0'164	8'476
58693	14	0'185	21'745	58767*	20	14'151	24'222	58895	10	14'772	4'489	58969	21	0'762	8'700
58694*	20	1'640	21'893	58768*	21	15'437	24'483	58896*	18	16'709	4'678	58970	9	11'120	8'049
58695	12	4'152	21'350	58769	20	18'114	24'905	58897	12	17'432	4'899	58971	11	11'314	8'712
58696*	40	5'768	21'730	58770	13	18'855	24'773	58898*	16	17'614	4'605	58972*	30	12'123	8'226
58697	10	7'560	21'545	58771	8	18'903	24'549	58899*	12	18'118	4'631	58973	10	12'311	8'799
58698*	12	7'678	21'113	58772*	21	19'404	24'573	58900	10	19'208	4'547	58974*	19	14'488	8'549
58699	10	8'445	21'717	58773	8	20'223	24'146	58901	9	21'157	4'320	58975	9	17'969	8'037
58700	12	13'203	21'918	58774	10	21'480	24'504	58902	11	22'049	4'976	58976	11	19'137	8'419
58701	8	13'553	21'956	58775	10	22'597	24'435	58903	9	0'322	5'630	58977	10	20'316	8'306
58702	21	14'565	21'430	58776	11	23'507	24'188	58904	9	0'417	5'096	58978*	39	22'010	8'896
58703	9	15'063	21'126	58777	10	24'808	24'013	58905	11	2'555	5'274	58979	8	23'474	8'699
58704	8	15'938	21'216	58778*	13	3'343	25'558	58906	10	5'558	5'531	58980	12	23'853	8'426
58705	22	16'749	21'377	58779	18	3'362	25'872	58907*	20	10'204	5'209	58981	9	24'018	8'381
58706	14	18'614	21'855	58780	12	4'564	25'049	58908	12	10'847	5'594	58982	10	24'038	8'049
58707	8	19'187	21'728	58781*	14	4'730	25'830	58909*	30	11'675	5'834	58983	9	24'778	8'768
58708	12	19'446	21'226	58782	11	7'310	25'308	58910	21	15'371	5'767	58984	14	25'611	8'263
58709*	16	19'685	21'319	58783	10	7'480	25'289	58911	20	15'661	5'670	58985	11	3'650	9'572
58710	11	20'230	21'691	58784	8	7'969	25'010	58912	11	16'292	5'453	58986	12	6'672	9'132
58711	12	23'008	21'751	58785*	19	8'818	25'883	58913	11	17'458	5'756	58987	8	7'838	9'591
58712	8	23'654	21'205	58786	9	9'278	25'380	58914	8	17'517	5'084	58988	11	9'276	9'022
58713	22	24'514	21'685	58787	12	9'317	25'753	58915	12	19'608	5'976	58989	20	12'307	9'206
58714	14	25'265	21'800	58788	8	9'793	25'826	58916	15	20'075	5'833	58990	12	12'612	9'698
58715	10	25'396	21'883	58789	9	10'833	25'530	58917*	31	22'991	5'874	58991	10	14'225	9'601
58716	8	1'934	22'237	58790	17	11'940	25'082	58918	9	23'157	5'092	58992	20	17'114	9'198
58717	10	2'506	22'018	58791*	13	14'392	25'382	58919	19	23'932	5'519	58993	9	18'482	9'942
58718	12	3'417	22'353	58792	10	16'878	25'315	58920	9	25'478	5'202	58994	8	19'509	9'727
58719	8	3'656	22'626	58793	11	17'108	25'695	58921	12	25'829	5'954	58995	10	20'513	9'106
58720	11	3'863	22'785	58794	8	19'985	25'810	58922	10	1'044	6'391	58996	12	22'347	9'284
58721*	25	5'484	22'715	58795	8	20'568	25'220	58923	18	1'882	6'943	58997	18	0'232	10'857
58722	8	5'903	22'667	58796	20	22'170	25'446	58924*	45	3'286	6'923	58998	10	4'799	10'431
58723	19	9'208	22'632	58797	15	24'402	25'849	58925	12	5'127	6'090	58999	9	5'078	10'868
58724	12	10'032	22'104	58798	22	24'806	25'285	58926*	20	5'559	6'119	59000	10	5'345	10'486
58725	8	10'562	22'715					58927	9	8'173	6'397	59001	10	5'679	10'103
58726	7	10'799	22'782					58928	12	9'981	6'399	59002	11	7'319	10'521
58727	12	11'051	22'513					58929*	22	13'990	6'032	59003	10	8'264	10'962
58728	12	12'114	22'292					58930*	11	14'262	6'519	59004	12	8'366	10'190

R. A. 20^h 6^m

Plate 463; 1893 Sept. 12.

Provisional Constants.

A	B	C
+00788	+00368	-4206

D	E	F
-00350	+00787	-0531

Mag. = 14.3 - 1.02 $\sqrt{d}$

No.	d	x	y
58801	17	0'103	0'845
58802	14	0'127	0'817
58803	20	0'724	0'433
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58805	10	6'849	0'109
58806	9	7'382	0'586
58807	12	7'872	0'123
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58810	10	10'236	0'523
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58812	12	12'686	0'675
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58814	9	17'257	0'245
58815	10	18'318	0'421
58816	8	18'714	0'954
58817	9	19'853	0'749
58818*	50	20'273	0'704
58819*	50	24'996	0'382
58820	14	0'513	1'904
58821	8	3'452	1'164
58822*	12	5'652	1'846
58823	10	6'397	1'101
58824	20	9'116	1'514
58825	8	10'216	1'575
58826	12	10'316	1'528
58827*	22	11'736	1'363
58828	9	11'800	1'015
58829	10	12'170	1'807
58830*	39	14'711	1'282
58831	10	14'732	1'073
58832	18	15'418	1'854
58833	11	17'633	1'036
58834	10	17'690	1'944
58835	12	19'673	1'605
58836	17	20'318	1'973
58837	10	21'374	1'576
58838	9	22'212	1'477
58839	8	24'681	1'994
58840	10	25'125	1'425
58841*	50	0'020	2'684
58842	18	0'664	2'521
58843	12	1'548	2'288
58844	8	1'658	2'358
58845	19	1'906	2'138
58846	18	2'985	2'760
58847	9	3'881	2'462
58848*	18	4'983	2'064
58849	12	6'148	2'137
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58851	8	7'241	2'597
58852	10	7'273	2'238
58853	9	9'117	2'247
58854	9	9'292	2'577
58855	8	9'432	2'380
58856	10	9'651	2'322

59005*	29	10°961	10°327	59079	18	19°368	13°721	59153	11	10°846	16°037	59227	8	9°001	19°228	59301	18	25°179	22°116
59006	12	11°923	10°370	59080	9	19°446	13°593	59154	10	12°287	16°969	59228	20	9°361	19°161	59302	8	25°931	22°836
59007	10	13°049	10°258	59081	11	19°832	13°742	59155	12	14°418	16°268	59229	9	10°437	19°782	59303	19	0°843	23°340
59008	12	14°268	10°510	59082	12	21°664	13°098	59156*	20	14°999	16°160	59230	11	11°490	19°657	59304	11	2°476	23°104
59009	9	16°323	10°200	59083	10	21°952	13°986	59157*	40	16°056	16°373	59231	8	13°446	19°917	59305	12	2°533	23°091
59010	8	17°394	10°924	59084	15	22°495	13°826	59158	9	16°237	16°271	59232	12	13°451	19°487	59306	8	2°616	23°257
59011	8	18°265	10°230	59085	9	22°540	13°065	59159	20	17°034	16°276	59233*	30	14°866	19°477	59307	9	3°030	23°515
59012	12	19°367	10°380	59086	12	24°534	13°070	59160	11	17°377	16°546	59234	11	16°773	19°126	59308	20	5°038	23°934
59013*	31	19°650	10°260	59087	22	24°833	13°590	59161	9	17°926	16°295	59235	12	17°379	19°852	59309	8	5°330	23°586
59014	10	22°827	10°693	59088	19	25°017	13°415	59162*	18	18°278	16°235	59236	7	17°481	19°706	59310	15	6°779	23°741
59015	23	25°071	10°892	59089	10	0°050	14°226	59163	9	18°839	16°972	59237*	23	17°650	19°761	59311	10	7°866	23°247
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59020*	38	1°213	11°225	59094	9	2°772	14°390	59168	18	25°454	16°982	59242	9	0°269	20°586	59316	10	10°971	23°086
59021*	35	2°092	11°136	59095	11	4°041	14°629	59169	12	0°429	17°404	59243	30	0°921	20°254	59317	22	11°293	23°377
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59023	9	3°582	11°942	59097*	20	6°121	14°537	59171	12	4°406	17°566	59245*	35	2°303	20°722	59319	9	12°416	23°092
59024	15	4°076	11°361	59098	12	7°006	14°048	59172	15	4°545	17°176	59246	20	3°515	20°941	59320*	25	12°695	23°932
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59026	19	8°537	11°657	59100	9	9°290	14°125	59174	12	5°177	17°020	59248*	12	3°872	20°466	59322	10	14°171	23°616
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59029	10	12°831	11°699	59103	10	12°205	14°638	59177*	30	9°720	17°761	59251	10	8°879	20°436	59325*	24	17°821	23°792
59030	8	13°974	11°426	59104*	55	13°864	14°671	59178	12	10°384	17°157	59252*	14	11°106	20°728	59326*	27	18°872	23°002
59031	9	14°422	11°836	59105	8	15°498	14°175	59179*	29	10°658	17°616	59253	8	12°856	20°909	59327*	18	18°916	23°920
59032*	35	15°254	11°739	59106	10	16°242	14°482	59180*	17	11°834	17°409	59254	11	13°629	20°498	59328	15	19°492	23°836
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59034	12	16°957	11°339	59108	8	17°185	14°666	59182	11	13°182	17°909	59256*	25	15°396	20°545	59330*	20	20°287	23°983
59035*	13	17°199	11°690	59109	12	17°574	14°677	59183	12	13°884	17°617	59257	12	15°508	20°147	59331	10	21°670	23°428
59036	10	17°431	11°600	59110	11	18°006	14°669	59184	9	14°638	17°938	59258	8	15°683	20°230	59332	8	2°917	24°428
59037	11	17°499	11°698	59111	11	18°433	14°184	59185	10	14°677	17°030	59259	10	16°513	20°934	59333	9	10°238	24°064
59038	12	17°502	11°327	59112	19	18°445	14°272	59186	11	16°487	17°467	59260	12	16°618	20°977	59334	8	11°172	24°530
59039	8	18°788	11°335	59113	15	18°960	14°708	59187	10	16°742	17°602	59261*	30	17°863	20°213	59335	10	14°758	24°245
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59043*	23	3°223	12°649	59117	9	2°974	15°966	59191	20	21°471	17°561	59265	20	22°904	20°703	59339	8	17°499	24°911
59044	12	4°498	12°433	59118	12	3°212	15°668	59192*	78	23°749	17°750	59266	30	0°593	21°807	59340*	28	18°636	24°011
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59049	25	9°514	12°982	59123	10	6°799	15°154	59197	11	5°328	18°414	59271	21	6°667	21°835	59345*	23	2°795	25°520
59050	11	11°837	12°535	59124*	19	7°688	15°715	59198	8	5°527	18°223	59272	20	7°406	21°314	59346*	19	5°286	25°595
59051*	12	11°929	12°774	59125	10	12°149	15°829	59199	12	6°545	18°445	59273	9	7°764	21°595	59347	8	6°171	25°581
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59053	10	12°558	12°505	59127	10	12°465	15°136	59201	30	8°382	18°632	59275	9	16°725	21°985	59349	17	9°703	25°600
59054	10	13°006	12°823	59128	20	14°144	15°800	59202	12	9°252	18°031	59276	10	18°377	21°572	59350	7	9°767	25°483
59055	12	13°327	12°986	59129	18	14°860	15°831	59203	10	9°781	18°073	59277	12	19°393	21°359	59351	14	10°965	25°226
59056	11	13°716	12°347	59130*	29	14°868	15°110	59204	11	10°285	18°014	59278	9	20°169	21°907	59352	12	13°858	25°565
59057	10	13°859	12°750	59131	11	15°271	15°413	59205	8	16°304	18°640	59279	9	22°574	21°062	59353	9	13°872	25°568
59058	11	15°825	12°875	59132	20	15°793	15°953	59206	9	16°329	18°994	59280	20	23°100	21°228	59354*	55	14°021	25°916
59059	8	17°823	12°032	59133*	40	18°323	15°144	59207	9	16°620	18°608	59281	8	1°232	22°571	59355	10	15°067	25°654
59060	21	20°735	12°479	59134	8	19°945	15°680	59208	17	16°808	18°360	59282	9	2°126	22°607	59356	11	18°558	25°160
59061	10	20°971	12°685	59135	17	20°542	15°585	59209	9	16°821	18°007	59283	11	5°177	22°808	59357	9	18°599	25°347
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59063	11	21°288	12°084	59137	10	22°727	15°244	59211	8	18°761	18°308	59285	8	7°996	22°498	59359*	29	21°991	25°245
59064	10	0°232	13°173	59138	9	24°203	15°955	59212	9	18°872	18°960	59286	18	9°247	22°148				
59065	28	0°862	13°338	59139	22	0°114	16°519	59213	12	19°044	18°366	59287	10	9°849	22°012				
59066	20	1°419	13°839	59140	23	2°944	16°118	59214	9	19°918	18°973	59288	20	11°729	22°518				
59067	10	1°429	13°207	59141	9	3°269	16°096	59215											

59753	9	13°238	15°844	59827	10	20°883	18°127	59901	13	23°199	22°891	60010	12	16°312	0°434	60084*	31	3°498	5°244
59754*	21	14°067	15°860	59828	10	21°593	18°193	59902	9	1°139	23°236	60011	12	17°007	0°537	60085*	11	4°942	5°138
59755	9	14°600	15°898	59829*	24	22°812	18°028	59903*	32	3°617	23°649	60012	10	17°354	0°217	60086	9	5°748	5°686
59756	10	16°423	15°149	59830*	39	23°948	18°752	59904	12	4°380	23°980	60013	12	17°558	0°944	60087	21	6°560	5°255
59757	9	16°886	15°107	59831	10	1°451	19°367	59905	16	6°660	23°889	60014	11	21°672	0°560	60088	12	7°904	5°136
59758*	28	17°169	15°415	59832	13	1°752	19°166	59906*	50	8°677	23°072	60015*	19	3°087	1°204	60089	9	8°066	5°184
59759	16	19°979	15°990	59833	10	3°623	19°027	59907	10	9°428	23°212	60016	20	4°507	1°984	60090	10	9°148	5°085
59760	19	21°758	15°633	59834	12	5°392	19°074	59908	16	10°066	23°670	60017*	25	5°595	1°515	60091	18	10°068	5°105
59761	10	24°809	15°195	59835	13	6°385	19°091	59909*	23	10°529	23°768	60018	10	8°356	1°216	60092	11	10°214	5°852
59762	24	25°844	15°423	59836	12	7°629	19°037	59910	8	11°054	23°516	60019*	25	8°988	1°506	60093	10	10°423	5°566
59763	15	1°564	16°987	59837*	32	8°303	19°883	59911	10	13°893	23°922	60020	9	10°931	1°199	60094	21	11°091	5°838
59764	10	5°726	16°354	59838	9	10°169	19°765	59912	20	14°070	23°324	60021*	33	12°616	1°935	60095	10	11°310	5°896
59765	9	7°677	16°647	59839	12	12°242	19°858	59913*	26	14°217	23°901	60022	12	17°736	1°261	60096	11	11°694	5°880
59766	8	12°948	16°209	59840	10	12°938	19°234	59914	18	20°122	23°343	60023	10	18°488	1°449	60097*	30	14°456	5°048
59767	10	13°900	16°908	59841	9	13°284	19°833	59915	16	22°385	23°077	60024	12	24°068	1°594	60098	11	15°365	5°785
59768	12	15°908	16°965	59842	10	13°394	19°498	59916	11	22°897	23°880	60025	9	1°745	2°453	60099*	12	15°617	5°893
59769	11	16°061	16°871	59843*	22	14°037	19°922	59917	11	23°632	23°434	60026*	16	4°895	2°500	60100	19	16°148	5°225
59770	10	16°179	16°236	59844	9	15°019	19°155	59918*	41	24°313	23°233	60027	20	5°132	2°166	60101	8	16°814	5°394
59771*	25	17°906	16°789	59845	15	15°100	19°550	59919	12	1°051	24°992	60028	9	5°134	2°486	60102	8	19°789	5°853
59772	10	19°860	16°558	59846	9	16°083	19°090	59920*	30	3°211	24°444	60029*	12	6°675	2°792	60103	16	22°925	5°030
59773	10	21°405	16°594	59847	10	18°994	19°139	59921	12	3°855	24°946	60030*	14	7°848	2°888	60104	14	1°651	6°474
59774*	28	22°198	16°475	59848*	43	20°800	19°227	59922	10	8°018	24°318	60031	11	8°632	2°274	60105	14	2°573	6°186
59775	9	22°403	16°021	59849*	20	20°932	19°170	59923	9	8°138	24°125	60032	21	10°034	2°257	60106	9	3°818	6°857
59776	11	22°475	16°495	59850*	18	21°522	19°394	59924*	21	12°351	24°442	60033*	21	12°590	2°752	60107*	20	5°303	6°911
59777*	27	22°544	16°748	59851	13	23°210	19°027	59925*	22	12°370	24°171	60034*	22	13°335	2°545	60108*	20	5°741	6°911
59778	9	22°914	16°939	59852	9	3°474	20°950	59926	10	12°576	24°459	60035	12	14°104	2°099	60109	9	10°732	6°646
59779	20	23°105	16°500	59853	11	5°330	20°172	59927*	22	12°883	24°244	60036	9	15°295	2°756	60110	20	11°127	6°741
59780	18	23°947	16°906	59854	12	7°431	20°504	59928	9	13°898	24°743	60037	8	15°368	2°426	60111	11	11°766	6°558
59781	12	24°340	16°984	59855*	42	7°819	20°288	59929	18	14°443	24°872	60038	12	16°088	2°129	60112	17	16°837	6°874
59782	22	25°126	16°545	59856	11	8°029	20°278	59930	13	15°376	24°981	60039*	11	16°529	2°875	60113	10	18°594	6°896
59783	14	25°834	16°396	59857	12	9°312	20°621	59931	8	17°275	24°977	60040	12	17°510	2°544	60114	9	18°620	6°143
59784	31	0°047	17°528	59858	13	9°476	20°905	59932	19	17°517	24°384	60041	10	19°395	2°426	60115*	20	18°629	6°205
59785	36	1°488	17°396	59859	10	11°894	20°286	59933	13	22°008	24°965	60042	9	21°510	2°205	60116*	41	18°676	6°965
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59788*	30	3°686	17°329	59862*	20	16°599	20°680	59936	13	9°050	25°734	60045	9	4°650	3°976	60119	12	19°332	6°462
59789	12	3°746	17°564	59863	12	19°669	20°622	59937	8	10°082	25°344	60046*	28	4°901	3°375	60120	15	19°795	6°365
59790	11	4°604	17°090	59864	18	19°805	20°990	59938	14	10°784	25°058	60047	12	5°156	3°146	60121	10	20°815	6°800
59791	10	4°868	17°423	59865	10	20°147	20°529	59939	25	12°408	25°673	60048	13	9°816	3°455	60122	11	21°605	6°375
59792	16	5°146	17°825	59866*	28	20°485	20°825	59940	10	12°984	25°152	60049*	22	12°052	3°664	60123	12	21°831	6°621
59793	19	6°109	17°858	59867*	12	21°167	20°418	59941*	24	22°583	25°798	60050	12	12°575	3°174	60124	12	23°570	6°074
59794	12	8°208	17°849	59868*	19	21°824	20°090	59942	15	23°795	25°301	60051	11	13°529	3°694	60125	15	24°282	6°266
59795	14	9°736	17°962	59869	10	24°376	20°802					60052	20	14°264	3°987	60126	14	25°427	6°724
59796	10	9°845	17°553	59870	16	2°272	21°036					60053*	21	14°793	3°435	60127	12	0°708	7°146
59797	9	10°524	17°416	59871*	28	4°927	21°940					60054*	29	15°285	3°186	60128	12	5°397	7°247
59798	11	10°865	17°025	59872	21	5°732	21°652					60055	7	15°575	3°144	60129*	12	6°478	7°728
59799	9	11°500	17°416	59873	12	8°106	21°011					60056	11	15°847	3°503	60130	11	8°634	7°826
59800	12	12°837	17°878	59874	11	10°144	21°127					60057	9	16°451	3°422	60131	19	9°955	7°415
59801	10	12°921	17°701	59875	12	11°437	21°084					60058	10	16°585	3°548	60132	10	11°004	7°773
59802	11	13°440	17°910	59876	11	11°444	21°270					60059	10	17°934	3°594	60133	9	12°185	7°778
59803	12	13°955	17°545	59877	10	12°590	21°414					60060	11	18°327	3°054	60134*	12	12°540	7°607
59804	10	13°961	17°841	59878	9	15°182	21°283					60061	8	18°555	3°413	60135	19	13°287	7°471
59805	9	18°027	17°882	59879	11	20°074	21°722					60062	11	18°822	3°902	60136*	21	14°791	7°688
59806	11	18°351	17°583	59880	9	22°886	21°649					60063*	19	19°041	3°228	60137*	30	14°903	7°222
59807	18	20°091	17°501	59881	24	24°673	21°370					60064*	38	24°092	3°086	60138	9	16°428	7°525
59808	11	20°950	17°120	59882	21	0°837	22°594					60065	12	2°144	4°841	60139	8	17°037	7°604
59809	13	21°660	17°833	59883	20	1°352	22°187					60066*	20	6°352	4°237	60140*	43	18°163	7°370
59810	12	25°324	17°054	59884	19	1°386	22°126					60067	17	6°526	4°320	60141	11	18°742	7°959
59811	21	2°498	18°170	59885	10	2°155	22°835					60068	11	7°888	4°100	60142	10	18°800	7°653
59812	18	2°814	18°495	59886	12	3°516	22°062					60069	20	8°237	4°902	60143	9	20°305	7°152
59813	8	3°535	18°695	59887	12	5°712	22°754					60070	12	8°576	4°009	60144	8	22°576	7°742
59814	18	4°144	18°634	59888*	38	5°772	22°946					60071	14	9°343	4°827	60145	11	22°667	7°194
59815	12	5°551	18°533	59889	15	8°248	22°709					60072	9	11°999	4°314	60146	8	24°453	7°751
59816	11	8°452	18°476	59890*	19	8°378	22°390					60073	12	14°076	4°303	60147	10	25°813	7°293
59817	9	8°961	18°869	59891	10	11°747	22°195					60074	10	14°255	4°441	60148	12	25°975	7°305
59818	10	12°397	18°681	59892															

60158	9	10'917	8'503	60232*	18	19'097	10'004	60306	11	9'220	14'227	60380	12	21'279	17'187	60454	19	9'702	21'537
60159	12	11'297	8'472	60233	10	19'346	10'548	60307	12	9'373	14'375	60381	9	22'049	17'992	60455	9	9'904	21'019
60160*	14	12'375	8'632	60234	9	21'258	10'666	60308	12	9'825	14'496	60382	19	22'243	17'582	60456	8	10'961	21'220
60161	10	13'919	8'486	60235	14	21'299	10'107	60309	11	14'560	14'005	60383	12	22'911	17'053	60457	10	12'199	21'780
60162*	20	14'860	8'936	60236	11	22'130	10'113	60310*	40	15'009	14'604	60384	12	22'923	17'829	60458	12	13'051	21'417
60163	9	15'256	8'881	60237	19	22'856	10'056	60311	8	15'925	14'046	60385	12	3'740	18'546	60459	12	14'916	21'606
60164	9	15'705	8'174	60238	10	22'873	10'955	60312	10	16'469	14'870	60386	8	4'682	18'055	60460	10	15'704	21'905
60165	11	15'886	8'639	60239*	15	23'065	10'866	60313	11	16'477	14'231	60387	10	5'821	18'584	60461	10	17'194	21'128
60166	9	18'248	8'976	60240	8	23'730	10'631	60314	9	16'533	14'022	60388	19	6'434	18'192	60462	21	19'882	21'971
60167	10	18'861	8'768	60241	14	24'370	10'686	60315	14	17'153	14'027	60389	21	7'668	18'001	60463	12	22'974	21'570
60168	11	18'906	8'389	60242	10	0'564	11'504	60316*	15	19'008	14'839	60390	12	8'763	18'113	60464	14	23'218	21'158
60169	8	19'456	8'070	60243	12	4'555	11'633	60317	9	19'576	14'392	60391	10	8'932	18'506	60465	18	24'278	21'246
60170*	30	19'579	8'464	60244	10	5'805	11'214	60318	9	19'732	14'658	60392	12	9'818	18'495	60466	12	24'334	21'278
60171	8	19'775	8'327	60245	10	6'788	11'917	60319	10	20'743	14'151	60393	10	10'161	18'822	60467	11	24'692	21'277
60172	10	19'851	8'823	60246	8	7'506	11'452	60320	8	21'319	14'701	60394	11	10'510	18'950	60468*	30	24'776	21'714
60173	11	20'776	8'165	60247	12	9'445	11'501	60321	9	21'430	14'472	60395*	43	14'039	18'415	60469*	29	25'183	21'577
60174*	27	22'432	8'665	60248	12	11'587	11'893	60322	10	25'542	14'716	60396	12	15'015	18'224	60470*	20	25'194	21'281
60175	8	22'857	8'436	60249	12	14'731	11'163	60323	10	1'100	15'142	60397*	20	16'713	18'903	60471	12	25'279	21'658
60176*	12	22'916	8'538	60250	8	15'223	11'556	60324	20	1'777	15'607	60398	9	20'069	18'563	60472*	27	2'736	22'867
60177	8	23'549	8'723	60251	9	17'899	11'605	60325*	43	3'683	15'532	60399	10	20'707	18'549	60473	11	3'581	22'871
60178	9	24'094	8'536	60252	18	19'566	11'858	60326*	20	5'727	15'470	60400	14	21'666	18'307	60474	11	5'436	22'648
60179*	18	25'730	8'564	60253	8	20'237	11'218	60327*	20	5'977	15'213	60401	9	21'792	18'969	60475	12	6'707	22'557
60180*	28	2'669	9'501	60254	18	21'904	11'595	60328*	11	6'661	15'537	60402	12	23'854	18'038	60476	8	6'764	22'755
60181	12	4'007	9'164	60255	10	24'619	11'439	60329	19	7'991	15'600	60403	10	25'794	18'596	60477	11	7'329	22'467
60182	10	5'245	9'114	60256	8	24'806	11'574	60330	8	8'216	15'523	60404	7	4'784	19'155	60478	10	8'715	22'624
60183	9	5'444	9'325	60257	12	24'893	11'510	60331	11	8'653	15'275	60405	12	6'785	19'678	60479	14	8'727	22'083
60184	12	5'515	9'416	60258	9	0'111	12'214	60332	18	11'234	15'144	60406	9	7'606	19'528	60480	12	9'858	22'890
60185	9	7'883	9'033	60259	8	1'138	12'251	60333	10	11'793	15'196	60407	20	9'348	19'052	60481	9	10'719	22'586
60186*	33	8'964	9'907	60260	12	2'844	12'045	60334	17	12'206	15'659	60408	11	11'963	19'026	60482	14	12'913	22'091
60187	10	9'041	9'886	60261*	12	3'265	12'714	60335	11	12'436	15'920	60409	9	12'129	19'879	60483	12	15'186	22'392
60188*	10	9'567	9'204	60262	14	4'676	12'344	60336	12	13'493	15'626	60410	10	12'194	19'915	60484	20	15'577	22'253
60189	20	9'852	9'956	60263*	28	7'783	12'547	60337*	37	13'912	15'367	60411	11	13'739	19'259	60485	9	18'167	22'439
60190	15	10'184	9'277	60264	9	8'473	12'514	60338*	30	14'273	15'875	60412	20	14'691	19'644	60486	11	20'662	22'754
60191*	21	11'041	9'759	60265	12	9'286	12'198	60339	8	14'437	15'508	60413	11	14'862	19'615	60487	9	21'126	22'748
60192	22	11'116	9'789	60266	12	9'386	12'081	60340	10	15'952	15'803	60414	12	14'918	19'531	60488	22	22'074	22'733
60193*	15	13'094	9'770	60267	10	10'128	12'956	60341	12	17'575	15'048	60415	9	15'520	19'677	60489	12	24'448	22'422
60194	9	13'379	9'064	60268	11	12'402	12'832	60342	10	18'266	15'641	60416	10	15'657	19'619	60490*	35	0'378	23'443
60195	20	13'827	9'215	60269	10	14'857	12'748	60343	11	18'965	15'303	60417	8	16'418	19'765	60491	9	1'312	23'640
60196	11	13'915	9'397	60270	8	15'370	12'013	60344*	21	19'221	15'028	60418	11	16'553	19'411	60492	12	2'358	23'387
60197	12	14'202	9'525	60271*	27	16'290	12'348	60345	10	23'926	15'860	60419	17	17'626	19'279	60493	11	3'605	23'163
60198	11	15'254	9'136	60272	10	19'405	12'045	60346	18	1'078	16'741	60420*	20	18'968	19'444	60494	8	5'271	23'871
60199*	22	16'884	9'139	60273*	21	19'701	12'457	60347	9	1'195	16'551	60421	11	19'813	19'864	60495	11	5'362	23'596
60200	20	17'175	9'356	60274	8	19'774	12'912	60348	12	1'784	16'579	60422*	15	20'479	19'111	60496	12	5'709	23'648
60201	19	18'296	9'342	60275	11	20'113	12'539	60349	8	2'185	16'058	60423	10	21'034	19'186	60497	20	7'379	23'130
60202	9	19'665	9'601	60276	15	20'795	12'639	60350	9	5'747	16'656	60424	12	21'331	19'158	60498	10	8'642	23'691
60203	10	20'156	9'295	60277	8	21'724	12'016	60351	10	6'447	16'962	60425*	20	21'593	19'161	60499	12	11'691	23'589
60204	10	21'826	9'756	60278	18	1'893	13'755	60352	10	6'559	16'796	60426	11	25'676	19'315	60500	15	11'877	23'024
60205	9	22'742	9'327	60279*	20	1'989	13'790	60353*	21	7'454	16'530	60427*	20	25'724	19'511	60501	12	12'119	23'579
60206	8	22'800	9'489	60280*	18	3'065	13'527	60354	11	9'615	16'560	60428*	40	25'765	19'408	60502	9	12'702	23'951
60207	20	23'078	9'987	60281	12	3'473	13'846	60355	8	11'153	16'605	60429	12	2'962	20'185	60503	20	14'765	23'442
60208	24	23'090	9'916	60282	11	9'265	13'820	60356	11	14'241	16'426	60430	11	3'433	20'176	60504	15	18'080	23'277
60209	10	23'633	9'308	60283*	20	10'214	13'406	60357	11	15'339	16'314	60431	8	3'473	20'137	60505	9	20'543	23'550
60210	11	24'300	9'863	60284*	30	10'445	13'049	60358*	12	16'917	16'426	60432*	30	5'107	20'232	60506	15	21'806	23'508
60211	12	25'304	9'777	60285	10	10'758	13'456	60359	20	19'751	16'989	60433	9	5'654	20'982	60507	14	24'544	23'103
60212*	18	25'677	9'606	60286	14	10'782	13'675	60360	15	20'047	16'595	60434	11	8'288	20'069	60508*	30	3'911	24'896
60213	9	25'905	9'884	60287	10	12'024	13'654	60361	9	20'577	16'768	60435*	17	8'732	20'799	60509	12	4'863	24'477
60214*	20	1'946	10'598	60288	11	12'732	13'087	60362	11	20'931	16'932	60436	16	9'458	20'903	60510	11	5'841	24'602
60215	16	2'810	10'244	60289	15	12'875	13'027	60363*	40	21'342	16'315	60437	9	10'686	20'984	60511	14	8'507	24'205
60216*	27	4'951	10'215	60290*	45	15'224	13'359	60364*	20	21'757	16'188	60438	10	11'035	20'145	60512	13	9'663	24'112
60217	9	8'199	10'346	60291	11	15'966	13'087	60365	9	22'125	16'804	60439	10	11'944	20'320	60513*	12	10'135	24'936
60218	11	8'540	10'440	60292	8	17'309	13'171	60366	12	0'299	17'194	60440*	24	13'584	20'583	60514	10	11'933	24'828
60219	8	8'764	10'468	60293	9	17'622	13'067	60367	12	1'287	17'247	60441	11	14'215	20'321	60515	17	14'281	24'239
60220	10	9'452	10'765	60294	10	23'													

60528	15	8°322	25°188	60641	10	16°958	2°731	60715	21	8°678	7°267	60789	11	10°626	10°616	60863	13	9°071	12°392
60529*	20	8°999	25°271	60642	15	17°738	2°880	60716	19	9°370	7°835	60790*	34	10°879	10°753	60864	10	9°526	12°926
60530	8	10°344	25°036	60643	16	18°568	2°968	60717	20	9°379	7°484	60791	12	11°127	10°629	60865	22	12°027	12°937
60531	15	10°459	25°554	60644	20	21°347	2°615	60718	18	9°814	7°384	60792	11	14°151	10°745	60866*	27	13°086	12°827
60532	17	11°356	25°321	60645	14	24°189	2°433	60719*	32	11°690	7°895	60793	22	16°632	10°304	60867	12	14°202	12°323
60533	10	17°394	25°021	60646	22	24°635	2°917	60720	23	13°362	7°693	60794*	24	16°681	10°866	60868	12	20°641	12°188
60534*	18	18°176	25°966	60647	13	4°446	3°493	60721	12	18°703	7°492	60795	14	17°110	10°197	60869	14	20°913	12°044
60535	10	20°675	25°846	60648	19	7°327	3°558	60722*	23	18°891	7°218	60796	17	20°295	10°535	60870	12	24°380	12°257
60536	20	21°330	25°558	60649	10	7°977	3°866	60723	19	20°005	7°103	60797	12	0°678	11°116	60871	14	25°586	12°781
60537	10	22°435	25°651	60650	12	8°745	3°800	60724	12	21°722	7°920	60798	21	0°951	11°183	60872	24	2°710	13°353
60538	11	23°396	25°536	60651	14	11°655	3°962	60725	11	22°783	7°951	60799	11	3°576	11°953	60873	13	3°889	13°069
				60652	12	12°433	3°983	60726*	31	23°094	7°629	60800	13	3°817	11°402	60874	18	4°745	13°502
				60653	13	16°017	3°248	60727	12	0°107	8°247	60801	11	3°872	11°248	60875	11	4°955	13°043
				60654	10	16°301	3°227	60728*	26	1°733	8°248	60802	12	3°896	11°722	60876	12	5°355	13°468
				60655	20	16°586	3°189	60729	11	2°696	8°782	60803	12	4°113	11°144	60877	11	5°494	13°121
				60656	17	22°973	3°538	60730	10	3°109	8°623	60804	13	4°173	11°983	60878	15	5°973	13°053
				60657	18	25°758	3°015	60731*	23	3°520	8°077	60805	12	4°472	11°960	60879	13	6°085	13°905
				60658	18	2°321	4°769	60732	14	3°977	8°492	60806	13	4°527	11°672	60880	10	6°514	13°397
				60659	20	4°424	4°746	60733	12	4°528	8°897	60807	11	4°659	11°287	60881	18	7°108	13°544
				60660*	22	5°572	4°657	60734	11	6°445	8°333	60808	10	4°668	11°284	60882*	40	7°336	13°416
				60661*	45	8°119	4°332	60735	10	6°846	8°049	60809	18	4°883	11°486	60883	18	7°449	13°380
				60662	10	9°234	4°566	60736	12	7°715	8°648	60810	20	4°943	11°832	60884	11	7°467	13°690
				60663	22	9°383	4°576	60737	16	11°806	8°474	60811	14	4°991	11°953	60885	10	8°273	13°855
				60664	26	10°293	4°509	60738*	20	12°858	8°950	60812	11	5°153	11°497	60886	14	8°336	13°398
				60665*	20	11°408	4°173	60739	13	14°355	8°023	60813	10	5°262	11°736	60887	14	8°399	13°810
				60666	14	14°243	4°505	60740	13	15°954	8°814	60814	12	5°265	11°037	60888	12	8°798	13°037
				60667	11	14°319	4°512	60741*	26	16°277	8°603	60815	13	5°278	11°275	60889	11	9°997	13°696
				60668*	26	15°483	4°329	60742*	14	19°690	8°569	60816	12	5°353	11°664	60890	12	10°422	13°959
				60669*	11	20°127	4°468	60743	16	19°977	8°377	60817	11	5°403	11°847	60891*	12	11°694	13°027
				60670	12	21°567	4°932	60744	15	20°338	8°319	60818	12	5°405	11°903	60892	14	22°182	13°265
				60671*	48	23°674	4°320	60745	13	20°598	8°788	60819	11	5°412	11°321	60893	20	22°304	13°742
				60672	15	24°104	4°835	60746	14	20°949	8°185	60820	13	5°489	11°475	60894	13	1°383	14°480
				60673	28	24°315	4°611	60747	11	21°794	8°399	60821	12	5°607	11°478	60895	14	1°646	14°352
				60674	12	24°579	4°187	60748	20	24°947	8°493	60822	10	5°668	11°381	60896*	32	2°617	14°385
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				60676	10	3°264	5°628	60750	18	1°331	9°456	60824	10	5°802	11°681	60898	12	3°871	14°842
				60677	15	7°531	5°509	60751*	24	1°697	9°281	60825	16	6°176	11°802	60899	19	3°897	14°297
				60678	16	8°469	5°754	60752	12	1°927	9°553	60826	12	6°381	11°527	60900	11	3°899	14°876
				60679*	29	9°326	5°046	60753	10	2°568	9°847	60827	13	6°470	11°622	60901	22	4°208	14°808
				60680*	31	10°655	5°168	60754	14	3°232	9°854	60828	14	6°778	11°451	60902	12	4°636	14°707
				60681	12	11°347	5°744	60755	19	3°536	9°402	60829	12	6°796	11°257	60903	21	5°125	14°916
				60682*	30	13°578	5°923	60756*	28	5°222	9°054	60830	10	6°893	11°650	60904	13	5°483	14°475
				60683	12	13°606	5°095	60757	14	5°377	9°602	60831	18	7°754	11°786	60905	10	5°578	14°324
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				60690	10	20°116	5°519	60764	20	15°407	9°743	60838	10	10°988	11°483	60912*	22	12°243	14°523
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				60692	20	24°063	5°427	60766	14	17°007	9°543	60840	13	16°687	11°975	60914	13	16°292	14°538
				60693	20	1°405	6°426	60767	13	17°249	9°246	60841	18	18°722	11°935	60915	18	19°039	14°654
				60694	13	1°794	6°983	60768	18	18°023	9°135	60842*	32	19°008	11°906	60916	10	20°356	14°243
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				60696*	23	3°262	6°417	60770	21	19°717	9°119	60844	14	24°459	11°057	60918	13	22°020	14°928
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				60699	11	6°753	6°632	60773	20	23°683	9°933	60847	15	25°074	11°561	60921	13	0°063	15°512
				60700	12	8°852	6°997	60774	29	25°866	9°913	60848	13	2°963	12°037	60922	12	2°008	15°371
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				60702	11	11°198	6°374	60776	22	0°418	10°375	60850	22	4°268	12°087	60924	11	4°369	15°204
				60703	12	13°174	6°076	60777	11	2°707	10°383	60851	13	4°324	12°307	60925	20	5°573	15°057
				60704	17	16°161	6°189	60778*	48	3°620	10°124	60852	11	4°562	12°463	60926	19	6°119	15°462
				60705	12	21°857	6°584	60779	13	4°068	10°778	60853	22	5°314	12°923	60927*	40	6°618	15°131
				60706	20	23°025	6°634	60780	10	4°525	10°857	60854	13	5°368	12°546	60928	26	7°160	15°951
				60707*	45	3°556	7°073	60781*	34	4°858	10°562	60855	10	6°004	12°649	60929	13	8°399	15°647
				60708	10	3°707	7°096	60782	14	4°946	10°240	60856	14	6°086	12°866	60930	12	11°353	15°578
				60709	24	4°502	7°287	60783	10	5°893	10°274	60857	13	6°637	12°656	60931	23	15°169	15°160
				60710	11	6°776	7°333	60784											

60937*	18	20°084	15°486	61011*	31	1°406	20°869	61085	11	12°895	23°365	61211	11	20°708	0°228	61285*	22	21°380	4°567
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60969*	28	14°513	17°025	61043*	24	21°470	21°057	61117	12	10°309	25°092	61243	18	15°241	2°677	61317	20	3°804	7°515
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60974*	30	18°560	17°520	61048	12	3°591	22°548	61122	24	20°175	25°126	61248	9	20°726	2°672	61322	9	11°164	7°374
60975	10	20°737	17°793	61049	13	4°661	22°013	61123	20	20°436	25°965	61249*	20	21°319	2°049	61323	14	11°533	7°636
60976	11	23°306	17°238	61050	14	5°227	22°285	61124	16	22°958	25°437	61250	13	23°054	2°274	61324	13	11°782	7°152
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60979	10	3°066	18°063	61053	11	8°199	22°599					61253	14	0°627	3°284	61327*	25	17°733	7°121
60980	16	3°107	18°305	61054	12	8°365	22°839					61254	12	1°755	3°353	61328	14	1°077	8°850
60981*	30	9°532	18°052	61055	19	8°802	22°930					61255	21	3°924	3°336	61329	10	2°318	8°789
60982	14	11°366	18°978	61056	15	11°129	22°465					61256	10	3°977	3°529	61330	12	3°058	8°841
60983	19	12°710	18°737	61057	14	11°337	22°534					61257*	20	5°986	3°089	61331	9	5°543	8°707
60984	20	13°436	18°310	61058	20	13°145	22°204					61258*	20	6°192	3°302	61332	9	3°608	8°327
60985	24	13°560	18°026	61059*	26	14°411	22°098					61259	9	7°562	3°130	61333	11	6°563	8°142
60986	12	14°049	18°018	61060*	22	15°607	22°077					61260	11	10°947	3°982	61334	9	7°738	8°986
60987	24	16°426	18°605	61061*	23	16°365	22°198					61261	9	11°976	3°611	61335	12	13°680	8°168
60988	17	16°683	18°643	61062	12	17°657	22°262					61262	10	12°860	3°008	61336	13	14°992	8°549
60989	20	20°283	18°062	61063	11	18°352	22°015					61263	9	14°101	3°137	61337	9	15°627	8°422
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60991*	25	22°899	18°392	61065	21	20°430	22°382					61265	9	16°630	3°224	61339	10	20°985	8°369
60992	25	24°588	18°985	61066	17	21°493	22°248					61266*	45	17°042	3°654	61340	14	24°792	8°236
60993	22	25°544	18°877	61067	13	22°072	22°033					61267	20	17°057	3°321	61341	10	25°170	8°308
60994*	26	1°905	19°105	61068	23	23°056	22°717					61268*	10	17°629	3°540	61342	9	2°145	9°719
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60997	27	8°142	19°127	61071	27	25°667	22°963					61271*	21	19°328	3°175	61345	10	9°065	9°881
60998*	24	12°781	19°727	61072	12	25°757	22°177					61272*	15	21°211	3°257	61346	12	9°209	9°226
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61001	12	14°355	19°452	61075	18	2°119	23°640					61275*	20	8°127	4°554	61349*	20	11°757	9°392
61002	12	19°233	19°116</																

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61361	11	12°736	10°326	61435*	30	17°991	14°844	61509	20	8°420	19°307	61583	23	24°957	22°512	61705	8	5°698	0°611
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61363	15	13°724	10°604	61437	20	20°704	14°617	61511	9	11°235	19°145	61585*	22	1°483	23°524	61707	7	5°928	0°297
61364*	22	14°339	10°072	61438*	18	22°788	14°589	61512	10	11°572	19°923	61586	18	2°165	23°296	61708	5	8°387	0°056
61365*	20	14°974	10°265	61439	17	22°981	14°274	61513	21	13°091	19°114	61587	12	9°692	23°892	61709	5	8°646	0°539
61366*	20	19°947	10°332	61440	13	24°376	14°271	61514	10	13°260	19°009	61588	9	10°666	23°349	61710	4	9°436	0°710
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61373	11	2°982	11°048	61447	9	5°470	15°561	61521	9	17°747	19°241	61595	9	17°764	23°829	61717	4	14°374	0°732
61374	10	4°170	11°077	61448	13	8°514	15°410	61522	12	18°402	19°535	61596	11	20°019	23°629	61718	8	16°049	0°414
61375	12	5°904	11°005	61449	10	12°848	15°738	61523	10	18°765	19°544	61597	11	20°114	23°582	61719	4	16°196	0°527
61376	14	6°121	11°039	61450	18	13°097	15°851	61524	9	18°942	19°504	61598	10	21°396	23°158	61720	5	17°592	0°641
61377	19	13°020	11°702	61451	14	16°652	15°125	61525	10	19°406	19°862	61599	12	21°898	23°672	61721	7	18°787	0°379
61378	14	14°144	11°250	61452	10	17°995	15°374	61526	9	20°572	19°196	61600	10	22°749	23°864	61722	8	19°036	0°419
61379*	12	17°321	11°002	61453	14	18°434	15°057	61527	12	25°486	19°233	61601*	19	24°092	23°323	61723	6	19°648	0°815
61380*	21	18°260	11°474	61454	9	18°571	15°222	61528	14	0°017	20°796	61602*	39	0°377	24°816	61724	11	20°274	0°761
61381	10	20°996	11°028	61455*	14	19°576	15°676	61529	20	0°577	20°000	61603	12	1°348	24°079	61725	10	21°630	0°507
61382*	9	21°136	11°668	61456	13	20°549	15°803	61530	12	6°168	20°338	61604	11	4°177	24°078	61726	4	21°976	0°438
61383	12	21°815	11°427	61457	14	22°932	15°009	61531	14	7°143	20°162	61605	12	4°600	24°134	61727	6	22°242	0°249
61384	9	23°186	11°436	61458	18	23°531	15°324	61532	9	7°686	20°309	61606	9	5°420	24°826	61728	23	2°758	1°191
61385	11	24°393	11°964	61459	11	24°644	15°268	61533*	20	8°872	20°444	61607	18	5°643	24°434	61729*	43	2°925	1°361
61386	9	24°408	11°603	61460	10	25°165	15°025	61534*	20	9°001	20°106	61608	10	5°692	24°883	61730	6	12°919	1°605
61387	10	0°605	12°628	61461	13	2°610	16°409	61535	9	9°051	20°675	61609	20	7°206	24°474	61731	12	13°340	1°471
61388*	36	0°950	12°043	61462	20	2°642	16°405	61536*	12	12°306	20°491	61610	10	9°184	24°025	61732	6	14°036	1°006
61389	9	1°931	12°465	61463	10	2°834	16°519	61537	10	13°280	20°972	61611	10	14°130	24°076	61733	14	14°820	1°740
61390	12	5°291	12°264	61464	9	3°050	16°747	61538	9	15°145	20°573	61612	9	14°512	24°734	61734	6	15°079	1°176
61391	9	5°762	12°157	61465	10	3°699	16°191	61539	14	16°670	20°837	61613	10	15°586	24°310	61735	7	16°161	1°620
61392	10	7°121	12°949	61466	12	4°983	16°257	61540	11	18°745	20°125	61614	12	19°287	24°261	61736	8	16°213	1°067
61393	9	9°848	12°042	61467	9	6°912	16°975	61541	10	19°067	20°452	61615*	23	21°313	24°721	61737	10	16°880	1°422
61394	10	9°987	12°118	61468*	14	10°005	16°339	61542	9	19°648	20°474	61616	14	23°380	24°947	61738	9	18°376	1°704
61395	21	9°988	12°740	61469*	20	10°313	16°683	61543*	15	20°909	20°657	61617*	48	0°141	25°145	61739	5	18°753	1°755
61396	9	10°122	12°771	61470	9	13°417	16°902	61544*	29	22°736	20°361	61618	18	1°276	25°987	61740	8	20°909	1°646
61397	9	11°894	12°904	61471	11	13°993	16°951	61545	12	22°872	20°330	61619	12	3°301	25°463	61741	14	20°999	1°348
61398	14	14°022	12°325	61472	13	14°855	16°965	61546	9	23°077	20°184	61620	13	4°924	25°167	61742	4	21°842	1°914
61399	11	15°819	12°569	61473	11	21°067	16°922	61547	12	25°832	20°610	61621	14	5°103	25°870	61743	12	22°441	1°408
61400	15	21°604	12°370	61474*	14	21°334	16°419	61548	10	2°323	21°513	61622	9	6°778	25°781	61744	5	23°698	1°685
61401	17	21°931	12°384	61475	15	22°753	16°806	61549	12	2°358	21°231	61623	10	9°693	25°312	61745	4	25°381	1°706
61402	11	22°038	12°513	61476	12	24°012	16°217	61550	11	6°137	21°981	61624	12	10°812	25°939	61746	6	25°422	1°678
61403	19	22°537	12°725	61477*	30	24°216	16°902	61551	10	6°879	21°035	61625	10	12°702	25°246	61747	11	1°146	2°595
61404	10	22°920	12°488	61478*	11	24°921	16°450	61552*	19	7°351	21°900	61626	11	12°785	25°579	61748	12	1°317	2°429
61405	22	23°214	12°326	61479	10	25°900	16°841	61553	9	7°744	21°515	61627*	16	14°443	25°656	61749	5	1°716	2°959
61406	10	23°938	12°540	61480	9	2°339	17°554	61554	9	8°772	21°174	61628	13	15°105	25°367	61750	7	2°304	2°498
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61408	11	1°827	13°122	61482	10	7°741	17°903	61556	12	9°712	21°966	61630*	30	23°319	25°065	61752	6	2°548	2°640
61409	15	4°936	13°455	61483	12	8°000	17°824	61557*	23	10°019	21°037	61631	18	25°740	25°161	61753	14	5°342	2°489
61410*	23	9°118	13°657	61484	9	9°547	17°845	61558	13	12°406	21°215					61754	9	8°207	2°303
61411	13	11°482	13°066	61485	10	12°466	17°231	61559	11	14°029	21°923					61755	5	8°644	2°318
61412	10	12°380	13°102	61486	9	14°685	17°642	61560	10	15°013	21°259					61756	9	9°340	2°707
61413	12	13°753	13°764	61487	15	20°206	17°545	61561	9	16°848	21°555					61757	8	9°382	2°374
61414	9	13°958	13°114	61488*	14	20°389	17°954	61562	12	18°256	21°351					61758	5	10°805	2°556
61415	14	15°250	13°129	61489	9	21°834	17°629	61563	10	20°077	21°259					61759	10	11°177	2°131
61416	9	20°840	13°817	61490	18	24°916	17°545	61564	9	21°311	21°124					61760	8	12°643	2°373
61417	10	23°287	13°378	61491	13	25°343	17°403	61565	12	25°605	21°373					61761	6	14°332	2°557
61418	13	24°378	13°173	61492	12	25°906	17°377	61566	20	1°990	22°466					61762	4	14°540	2°743
61419	12	24°613	13°093	61493	14	3°414	18°770	61567	11	2°236	22°514					61763	4	15°013	2°378
61420	20	24°636	13°978	61494	15	11°435	18°191	61568	12	2°476	22°775					61764*	45	15°208	2°902
61421	12	25°270	13°319	61495	9	11°957	18°225	61569	20	2°794	22°684					61765	4	15°248	2°904
61422	11	2°615	14°791	61496	12	14°031	18°178	61570	9	2°887	22°445					61766*	36	16°130	2°036

61777	8	1°503	3°029	61851	8	19°800	5°320	61925	8	25°952	7°390	61999	16	4°305	10°871	62073	12	1°014	12°995
61778	4	2°266	3°364	61852	7	21°401	5°251	61926	5	1°188	8°681	62000	14	4°353	10°746	62074	12	1°246	12°911
61779	5	2°554	3°704	61853	6	21°732	5°589	61927	14	1°344	8°055	62001	19	4°612	10°458	62075	10	2°313	12°770
61780	5	3°371	3°533	61854	11	23°306	5°088	61928	10	1°721	8°120	62002	8	4°723	10°747	62076	10	3°109	12°268
61781	16	7°660	3°568	61855	7	23°584	5°792	61929	4	2°587	8°574	62003	12	5°472	10°773	62077	8	5°229	12°362
61782	11	9°608	3°830	61856	6	23°813	5°951	61930	12	3°148	8°212	62004	8	5°610	10°318	62078	6	5°337	12°557
61783	12	11°380	3°190	61857	8	24°087	5°014	61931	14	3°892	8°411	62005	7	5°720	10°323	62079	5	6°509	12°082
61784	14	12°114	3°945	61858	9	24°106	5°128	61932	10	4°164	8°881	62006	10	6°234	10°271	62080	4	7°288	12°253
61785	7	12°576	3°219	61859	4	24°601	5°819	61933	5	4°516	8°160	62007	7	6°409	10°230	62081	8	7°561	12°174
61786	6	12°843	3°612	61860	9	0°014	6°274	61934	16	4°685	8°594	62008	6	6°555	10°308	62082	4	9°340	12°733
61787	7	12°916	3°284	61861	7	0°129	6°266	61935	13	5°188	8°099	62009	5	7°287	10°467	62083	9	10°241	12°441
61788	13	13°633	3°991	61862	8	1°763	6°691	61936	4	5°310	8°581	62010	9	7°331	10°368	62084	18	10°264	12°122
61789	6	13°678	3°306	61863	5	4°639	6°430	61937	5	5°531	8°682	62011	5	7°373	10°815	62085	13	10°750	12°976
61790	10	14°107	3°702	61864	11	7°820	6°317	61938	6	5°640	8°368	62012	14	7°573	10°521	62086	6	10°985	12°239
61791	7	15°406	3°950	61865	6	8°401	6°414	61939	10	6°529	8°283	62013	11	8°326	10°704	62087	9	11°729	12°004
61792	6	15°678	3°693	61866	8	8°492	6°189	61940	5	7°288	8°839	62014	8	8°641	10°370	62088	4	11°850	12°105
61793	13	16°231	3°771	61867	7	8°495	6°212	61941	7	7°512	8°798	62015	5	11°654	10°237	62089	6	12°513	12°797
61794	18	18°339	3°326	61868	10	9°402	6°541	61942	4	7°552	8°937	62016*	30	11°703	10°622	62090	9	12°629	12°120
61795	11	18°405	3°572	61869	7	10°522	6°659	61943	11	8°623	8°878	62017	8	12°877	10°879	62091	8	14°405	12°669
61796	6	20°985	3°994	61870	8	11°045	6°837	61944	4	8°774	8°889	62018	6	12°902	10°410	62092	8	14°646	12°246
61797	4	21°337	3°206	61871	13	11°524	6°688	61945	10	8°805	8°481	62019	21	13°048	10°512	62093	4	16°157	12°277
61798	11	23°454	3°684	61872	12	12°935	6°793	61946	5	8°926	8°857	62020	4	13°492	10°688	62094	13	17°330	12°169
61799	15	24°544	3°953	61873	4	13°025	6°224	61947	5	8°948	8°826	62021	10	14°156	10°921	62095	14	18°182	12°130
61800	4	25°102	3°025	61874	7	13°158	6°180	61948*	19	10°977	8°828	62022	7	14°200	10°660	62096	6	18°267	12°094
61801	10	0°394	4°322	61875	10	13°944	6°288	61949*	64	11°378	8°742	62023	5	14°321	10°172	62097	14	19°312	12°703
61802*	11	1°839	4°674	61876	5	14°286	6°259	61950*	19	11°701	8°784	62024	7	15°499	10°571	62098	4	20°016	12°757
61803	17	2°683	4°163	61877	4	14°670	6°803	61951	12	12°612	8°158	62025	13	17°934	10°430	62099	5	20°977	12°608
61804	11	4°633	4°349	61878	18	15°372	6°920	61952	6	12°701	8°295	62026	14	18°709	10°312	62100	5	21°576	12°337
61805	5	4°960	4°982	61879	13	17°113	6°219	61953	8	13°620	8°727	62027	7	18°886	10°305	62101	5	22°560	12°328
61806	10	7°071	4°564	61880	7	17°704	6°172	61954	10	13°944	8°039	62028	6	19°368	10°254	62102	5	24°259	12°200
61807	4	8°416	4°868	61881	12	17°893	6°177	61955	19	14°839	8°872	62029	4	19°647	10°710	62103	16	24°590	12°137
61808*	32	8°821	4°999	61882	9	18°852	6°236	61956	9	15°587	8°401	62030	4	20°590	10°399	62104	5	25°338	12°919
61809*	35	9°135	4°804	61883	5	19°726	6°900	61957	13	17°469	8°650	62031	12	21°339	10°976	62105	4	25°834	12°306
61810	21	10°656	4°002	61884	8	21°311	6°197	61958	12	18°424	8°593	62032	14	22°355	10°361	62106	9	1°041	13°712
61811	5	10°920	4°999	61885	11	21°414	6°193	61959	8	19°008	8°972	62033	13	22°447	10°183	62107	19	1°286	13°795
61812	8	11°542	4°020	61886	4	21°954	6°771	61960*	24	19°395	8°268	62034	7	25°156	10°596	62108	13	1°909	13°128
61813	7	11°793	4°448	61887	4	22°149	6°349	61961	12	20°334	8°760	62035	5	0°732	11°973	62109	4	2°288	13°353
61814	4	12°010	4°728	61888	8	23°812	6°955	61962	5	20°417	8°988	62036	4	0°774	11°659	62110	6	3°651	13°007
61815	4	12°583	4°603	61889	7	0°651	7°423	61963	13	20°903	8°170	62037	4	0°825	11°843	62111	4	3°904	13°141
61816	5	12°761	4°932	61890	4	2°496	7°574	61964	7	20°946	8°729	62038	12	1°008	11°788	62112	4	4°869	13°139
61817	26	13°267	4°065	61891	11	2°975	7°541	61965	8	22°280	8°130	62039	11	1°014	11°428	62113	7	5°015	13°067
61818	6	14°428	4°706	61892	7	3°151	7°630	61966	6	23°495	8°469	62040	5	1°588	11°119	62114	11	5°144	13°794
61819	4	14°888	4°857	61893	12	3°273	7°569	61967	5	24°425	8°626	62041*	61	3°251	11°210	62115	13	6°665	13°799
61820	13	15°701	4°384	61894	11	3°446	7°285	61968	9	24°445	8°447	62042*	16	3°367	11°810	62116	4	7°638	13°765
61821	12	16°252	4°458	61895	9	3°635	7°349	61969*	14	24°769	8°963	62043	7	3°613	11°008	62117	12	12°366	13°461
61822	7	18°480	4°386	61896	10	3°854	7°553	61970	7	25°954	8°174	62044	5	5°092	11°893	62118	12	12°639	13°300
61823	11	19°425	4°149	61897	4	5°907	7°597	61971	10	0°075	9°468	62045	9	5°396	11°118	62119	9	12°801	13°497
61824	13	19°914	4°620	61898	10	7°333	7°026	61972	14	1°041	9°051	62046	5	6°049	11°623	62120	11	13°279	13°030
61825	12	20°022	4°437	61899	9	8°279	7°168	61973	10	3°748	9°592	62047	8	6°136	11°203	62121	7	15°217	13°631
61826*	14	20°051	4°289	61900	13	9°311	7°640	61974	19	3°979	9°003	62048*	15	6°257	11°050	62122	5	15°899	13°300
61827	10	20°106	4°391	61901	9	9°749	7°127	61975	11	4°606	9°204	62049	4	8°389	11°232	62123	4	16°109	13°019
61828	7	22°111	4°956	61902	11	9°896	7°439	61976	7	5°693	9°975	62050	8	9°016	11°264	62124	6	16°451	13°929
61829	18	22°827	4°593	61903	6	10°555	7°879	61977	8	6°035	9°451	62051	12	9°383	11°752	62125	14	17°156	13°231
61830	7	23°099	4°118	61904	8	10°735	7°947	61978*	15	7°662	9°443	62052	13	9°455	11°018	62126	8	18°317	13°418
61831	10	23°315	4°192	61905	10	11°368	7°326	61979	9	8°622	9°786	62053	6	10°804	11°520	62127	6	18°614	13°420
61832	8	24°439	4°590	61906	9	11°527	7°902	61980	13	8°825	9°623	62054	5	11°752	11°700	62128	15	20°227	13°351
61833*	20	0°672	5°584	61907	8	11°545	7°161	61981	8	9°049	9°591	62055	5	13°577	11°356	62129	11	20°806	13°416
61834	13	2°171	5°991	61908	24	11°970	7°069	61982*	29	10°640	9°558	62056	6	14°732	11°779	62130*	14	22°969	13°518
61835	20	4°046	5°540	61909	11	12°034	7°627	61983	13	11°069	9°623	62057	4	15°626	11°233	62131	7	24°102	13°029
61836*	30	4°823	5°140	61910	13	13°626	7°284	61984	10	11°244	9°139	62058	16	16°095	11°262	62132	8	24°799	13°836
61837	4	5°984	5°748	61911*	23	14°421	7°096	61985*	45	12°621	9°143	62059*	25	16°369	11°761	62133	13	25°170	13°167
61838	7	6°064	5°514	61912	4	15°480	7°947	61986*	23	12°769	9°629	62060	10	16°529	11°556	62134	5	0°362	14°160
61839	4	7°631	5°916	61913	9	16°718	7°631	61987	7	13°775	9°615	62061	11	17°166	11°905	62135	14	1°031	14°095
61840	6	8°309	5°780	61914	4	18°134	7°222	61988	6	14°471	9°776	62062	6	18°6					

62147	13	9°191	14°568	62221	7	4°562	16°931	62295	6	20°611	17°210	62369	6	10°064	19°243	62443	6	24°119	20°925
62148	5	9°339	14°131	62222	6	4°746	16°639	62296	11	20°810	17°619	62370*	43	10°881	19°836	62444	7	24°392	20°539
62149	11	9°967	14°914	62223	11	4°988	16°291	62297	6	21°013	17°635	62371	6	11°236	19°721	62445	9	25°561	20°130
62150	8	10°499	14°440	62224	5	5°867	16°859	62298	13	21°628	17°340	62372*	24	11°390	19°205	62446	10	0°132	21°970
62151	11	10°639	14°321	62225	17	6°025	16°330	62299	4	21°682	17°539	62373	6	11°734	19°779	62447	8	0°159	21°362
62152*	70	10°970	14°323	62226	24	6°199	16°929	62300	6	22°447	17°760	62374	6	12°257	19°387	62448	9	2°382	21°171
62153	9	11°111	14°828	62227	11	6°358	16°156	62301	8	22°773	17°557	62375	4	12°450	19°659	62449*	23	2°611	21°928
62154	15	13°689	14°412	62228	25	7°315	16°744	62302	12	22°899	17°007	62376	7	12°558	19°589	62450	4	3°045	21°246
62155*	23	13°957	14°011	62229	11	7°720	16°135	62303	4	23°203	17°351	62377	15	13°253	19°531	62451	11	5°236	21°865
62156*	39	15°658	14°894	62230	9	7°963	16°174	62304	10	23°772	17°070	62378	16	14°297	19°038	62452	5	6°255	21°486
62157	21	17°387	14°844	62231	9	10°102	16°338	62305	5	24°034	17°566	62379	23	14°543	19°676	62453	7	6°675	21°139
62158	9	17°711	14°170	62232	6	10°447	16°232	62306*	19	25°258	17°125	62380	4	16°333	19°108	62454	26	6°887	21°900
62159	6	17°830	14°981	62233	10	11°444	16°965	62307	5	25°374	17°620	62381	6	16°372	19°274	62455*	47	7°676	21°860
62160	14	18°892	14°704	62234	4	11°559	16°127	62308	4	25°480	17°724	62382	7	16°613	19°200	62456	18	7°771	21°826
62161	15	19°372	14°791	62235	8	11°844	16°263	62309	8	0°638	18°921	62383	6	17°624	19°909	62457	7	8°082	21°609
62162	4	19°494	14°658	62236	5	13°086	16°939	62310	7	0°770	18°218	62384	11	18°398	19°980	62458	8	9°211	21°016
62163	8	19°629	14°153	62237	10	13°690	16°830	62311	6	2°894	18°703	62385	10	18°467	19°109	62459	4	11°259	21°224
62164	23	19°900	14°992	62238	8	14°496	16°843	62312	7	3°147	18°196	62386	4	18°559	19°702	62460	8	12°005	21°031
62165	17	19°971	14°780	62239	11	14°693	16°336	62313	6	4°721	18°729	62387	21	19°273	19°899	62461	5	12°712	21°516
62166	4	20°538	14°303	62240*	49	14°985	16°404	62314	11	4°740	18°789	62388	18	19°400	19°976	62462	12	13°215	21°470
62167	5	21°404	14°796	62241	22	17°081	16°024	62315	6	4°785	18°840	62389	5	19°752	19°651	62463	4	13°500	21°024
62168	9	21°478	14°330	62242	7	17°396	16°455	62316	7	5°026	18°594	62390	14	20°439	19°618	62464	18	13°729	21°786
62169	11	21°516	14°557	62243	10	17°628	16°378	62317*	37	5°080	18°417	62391	5	20°590	19°585	62465	5	14°552	21°329
62170	12	22°743	14°289	62244	7	17°653	16°337	62318	4	6°181	18°428	62392	4	20°746	19°829	62466	16	15°903	21°026
62171	4	23°730	14°886	62245	16	17°721	16°508	62319	6	6°952	18°701	62393	11	20°778	19°649	62467	4	16°324	21°493
62172	21	24°661	14°439	62246	17	18°911	16°027	62320	8	7°827	18°900	62394	5	21°490	19°874	62468	9	16°772	21°929
62173	8	25°226	14°534	62247	20	19°570	16°784	62321	10	8°401	18°990	62395	9	23°132	19°710	62469	6	16°773	21°953
62174	19	0°201	15°163	62248	6	19°758	16°363	62322	6	8°707	18°965	62396	5	23°146	19°739	62470	5	16°834	21°236
62175	6	1°050	15°827	62249	10	21°770	16°151	62323*	20	8°968	18°329	62397	13	23°178	19°956	62471	8	16°882	21°231
62176	4	1°295	15°101	62250	7	22°921	16°390	62324*	12	9°033	18°314	62398	8	23°266	19°866	62472	10	17°227	21°359
62177	11	1°316	15°089	62251	7	22°962	16°849	62325	4	9°368	18°070	62399*	20	25°163	19°881	62473	9	17°319	21°574
62178	7	1°338	15°720	62252	5	23°031	16°617	62326	6	9°943	18°987	62400	7	25°816	19°071	62474	8	17°831	21°809
62179	9	1°350	15°838	62253	4	23°056	16°618	62327	5	10°932	18°580	62401	8	1°703	20°110	62475	13	17°996	21°900
62180	6	2°599	15°351	62254	5	23°602	16°136	62328	5	10°982	18°619	62402	12	2°594	20°405	62476	6	19°181	21°725
62181	4	2°863	15°933	62255	16	24°053	16°842	62329	9	11°349	18°440	62403	12	3°093	20°287	62477	21	20°043	21°047
62182	10	3°451	15°853	62256	12	24°602	16°226	62330	5	11°757	18°460	62404	7	3°440	20°460	62478	8	21°721	21°440
62183	7	3°732	15°450	62257	13	24°785	16°717	62331	6	11°820	18°112	62405	7	3°744	20°076	62479	4	23°073	21°016
62184	6	4°261	15°562	62258	6	25°427	16°404	62332	10	11°930	18°218	62406	9	4°923	20°143	62480	7	23°805	21°770
62185	18	5°310	15°815	62259	4	25°549	16°236	62333	4	12°277	18°132	62407	11	5°144	20°812	62481	11	25°502	21°811
62186	6	5°430	15°729	62260	6	1°542	17°380	62334	6	12°308	18°219	62408	6	5°479	20°796	62482	6	1°084	22°408
62187*	27	5°552	15°912	62261	9	1°610	17°528	62335	11	13°063	18°931	62409	13	5°620	20°027	62483	21	1°753	22°321
62188	18	5°580	15°915	62262	16	1°626	17°357	62336	7	13°809	18°768	62410	8	6°234	20°520	62484	7	2°484	22°497
62189	4	6°336	15°355	62263	13	2°053	17°209	62337	6	13°903	18°627	62411	7	6°242	20°694	62485	6	3°068	22°414
62190	8	6°666	15°164	62264	8	2°568	17°820	62338	7	14°266	18°255	62412	11	6°881	20°201	62486	9	3°162	22°292
62191	8	7°105	15°547	62265	12	2°613	17°174	62339	7	14°309	18°182	62413	4	7°152	20°399	62487	12	3°231	22°316
62192	5	7°162	15°178	62266	5	3°123	17°337	62340	18	14°633	18°910	62414	10	7°518	20°321	62488	11	3°938	22°912
62193	6	7°641	15°472	62267	22	3°399	17°889	62341	10	14°831	18°639	62415	8	7°691	20°686	62489	5	9°079	22°295
62194	4	9°552	15°884	62268	10	4°218	17°366	62342	10	16°870	18°761	62416	10	8°383	20°476	62490	5	9°890	22°953
62195	9	10°807	15°350	62269	4	4°752	17°726	62343	9	18°475	18°248	62417	4	8°727	20°875	62491	12	10°420	22°104
62196	10	11°055	15°380	62270	11	5°025	17°821	62344	4	18°480	18°680	62418	10	8°773	20°122	62492	5	10°514	22°435
62197	4	11°677	15°660	62271	9	7°164	17°790	62345	5	18°782	18°330	62419	8	9°258	20°234	62493	10	11°021	22°052
62198	4	11°936	15°772	62272	11	7°912	17°590	62346	10	19°315	18°564	62420	19	9°396	20°898	62494	7	11°562	22°086
62199	21	12°042	15°180	62273	5	8°153	17°658	62347	11	19°946	18°795	62421	9	10°591	20°234	62495	11	13°062	22°002
62200	9	12°639	15°521	62274	5	8°731	17°230	62348	6	20°126	18°150	62422	8	10°629	20°249	62496	6	13°296	22°255
62201	5	13°861	15°778	62275	9	9°037	17°287	62349	10	20°167	18°736	62423	12	10°769	20°150	62497	5	13°980	22°641
62202	10	14°122	15°170	62276	5	9°454	17°619	62350	16	20°315	18°329	62424	7	11°480	20°106	62498	13	14°737	22°134
62203*	28	14°225	15°116	62277	17	10°765	17°556	62351	4	21°443	18°909	62425	9	11°747	20°171	62499	4	15°180	22°871
62204	6	14°874	15°187	62278	6	11°796	17°465	62352	13	22°775	18°600	62426	12	12°238	20°129	62500	6	15°217	22°230
62205	7	15°263	15°595	62279	21	12°189	17°800	62353	14	23°657	18°130	62427	21	13°610	20°592	62501	9	15°400	22°080
62206	8	15°425	15°279	62280*	35	13°033	17°507	62354	5	24°827	18°910	62428	5	15°672	20°953	62502	13	16°224	22°118
62207	13	15°644	15°114	62281	7	13°542	17°751	62355	7	25°209	18°998	62429	7	15°706	20°550	62503	8	17°488	22°380
62208	11	16°068	15°009	62282	10	13°924	17°446	62356*	15	25°477	18°890	62430	6	15°730	20°590	62504	7	18°399	22°754
62209	4	16°289	15°066	62283	4	15°246	17°967	62357	12	2°224	19°035	62431	5						

62517	8	2°184	23°102	62591	12	24°601	24°916	62714	16	15°646	0°133	62788	5	25°771	3°973	62862	6	14°270	6°218
62518	6	3°007	23°335	62592	10	24°983	24°129	62715	5	16°364	0°417	62789	16	0°670	4°087	62863	6	14°575	6°747
62519*	14	5°423	23°558	62593	6	0°632	25°047	62716	7	16°473	0°821	62790	8	3°618	4°579	62864	5	15°127	6°666
62520	7	5°519	23°680	62594	9	2°812	25°231	62717	7	16°587	0°568	62791	9	4°626	4°710	62865	9	16°016	6°643
62521	6	5°570	23°240	62595	11	2°974	25°285	62718	8	18°449	0°434	62792	9	4°695	4°573	62866	17	16°620	6°775
62522	8	5°788	23°204	62596	10	3°520	25°969	62719	6	18°890	0°809	62793	17	7°929	4°524	62867	12	17°236	6°649
62523	4	6°328	23°144	62597	13	4°953	25°894	62720*	17	19°688	0°843	62794	7	9°053	4°598	62868	5	17°369	6°820
62524	13	6°364	23°314	62598	9	5°378	25°408	62721	8	21°821	0°430	62795	11	9°348	4°646	62869	8	17°483	6°356
62525	10	6°761	23°798	62599	18	5°462	25°864	62722	11	22°946	0°670	62796	8	10°137	4°659	62870	7	17°583	6°089
62526	8	7°526	23°137	62600	10	5°984	25°289	62723	9	23°528	0°320	62797	10	11°054	4°738	62871	6	18°038	6°184
62527	13	7°899	23°815	62601	4	6°682	25°805	62724	6	23°893	0°390	62798	18	11°658	4°367	62872	5	18°400	6°488
62528	8	9°177	23°679	62602	9	7°534	25°683	62725	5	2°868	1°596	62799	6	11°872	4°011	62873	4	21°847	6°579
62529	10	9°447	23°538	62603	11	9°022	25°124	62726	10	3°816	1°311	62800	5	12°809	4°270	62874	7	22°608	6°862
62530	6	9°863	23°896	62604	8	10°945	25°843	62727	9	11°402	1°813	62801	7	13°269	4°838	62875	10	25°639	6°586
62531	10	10°960	23°959	62605	8	11°959	25°677	62728	13	11°731	1°315	62802	11	14°474	4°715	62876	4	25°876	6°773
62532	4	11°085	23°824	62606	12	13°088	25°672	62729	8	12°100	1°769	62803	13	15°744	4°671	62877	8	2°020	7°921
62533	12	11°467	23°723	62607	5	13°359	25°020	62730	7	12°180	1°262	62804	8	15°884	4°050	62878	7	2°033	7°521
62534	5	11°576	23°122	62608	10	14°063	25°490	62731	4	13°645	1°936	62805	13	16°717	4°568	62879	8	2°124	7°507
62535	11	12°261	23°063	62609	4	14°310	25°619	62732	5	13°920	1°805	62806	14	17°031	4°550	62880	12	2°438	7°868
62536	12	12°286	23°185	62610	7	14°419	25°304	62733	16	13°920	1°804	62807	6	19°367	4°668	62881	5	2°944	7°540
62537	4	13°155	23°898	62611	5	15°754	25°311	62734	9	14°709	1°810	62808*	19	20°036	4°301	62882*	15	3°214	7°824
62538	7	13°439	23°675	62612	11	15°822	25°212	62735	10	15°782	1°076	62809	5	21°077	4°782	62883	8	5°562	7°870
62539	7	13°680	23°454	62613	10	15°943	25°191	62736	9	18°568	1°055	62810	7	21°199	4°418	62884	5	6°579	7°006
62540	10	13°862	23°054	62614	7	16°368	25°494	62737	7	19°119	1°648	62811	6	21°677	4°866	62885	8	6°751	7°340
62541	15	16°218	23°475	62615	13	16°727	25°248	62738	14	21°488	1°175	62812	10	22°341	4°129	62886	19	7°878	7°206
62542	9	16°270	23°782	62616	10	16°940	25°100	62739	13	21°775	1°853	62813	8	22°514	4°135	62887	5	7°978	7°948
62543	7	16°586	23°696	62617*	15	17°403	25°319	62740	10	22°256	1°095	62814	5	22°566	4°156	62888	9	8°561	7°950
62544*	12	18°538	23°971	62618	6	18°369	25°475	62741	10	22°417	1°011	62815	5	25°797	4°285	62889	8	9°269	7°974
62545*	22	18°789	23°977	62619	9	18°708	25°613	62742	10	22°589	1°939	62816	5	0°226	5°154	62890	9	9°730	7°224
62546	7	18°888	23°841	62620	10	19°597	25°219	62743	6	23°521	1°288	62817	7	0°248	5°268	62891	7	10°461	7°448
62547	4	20°409	23°742	62621	8	20°184	25°431	62744	6	24°576	1°970	62818	11	2°764	5°063	62892	22	10°648	7°615
62548*	34	20°817	23°254	62622	7	20°638	25°936	62745	7	24°822	1°399	62819	4	3°889	5°884	62893*	10	11°856	7°161
62549	12	21°038	23°791	62623	4	20°760	25°772	62746	12	5°219	2°498	62820	11	3°997	5°049	62894	7	12°397	7°051
62550	4	23°837	23°289	62624	9	23°449	25°047	62747	7	6°103	2°230	62821	7	4°553	5°049	62895	9	12°436	7°620
62551	16	24°656	23°351	62625	7	23°555	25°993	62748	10	6°128	2°194	62822	8	4°861	5°969	62896*	16	14°088	7°104
62552*	26	25°705	23°269	62626	6	23°573	25°971	62749	9	6°657	2°019	62823	13	7°285	5°891	62897	10	14°155	7°202
62553	26	0°161	24°902	62627	5	24°448	25°360	62750	19	7°820	2°565	62824	5	8°264	5°815	62898	14	15°095	7°921
62554	14	0°217	24°783	62628	5	24°707	25°230	62751	7	10°118	2°629	62825*	44	8°331	5°617	62899	5	15°128	7°069
62555	8	1°907	24°169					62752	23	11°050	2°662	62826	7	10°020	5°519	62900	7	15°467	7°216
62556	16	2°581	24°960					62753	9	12°730	2°816	62827	14	11°004	5°832	62901	8	15°840	7°861
62557	14	2°864	24°255					62754	4	12°958	2°879	62828	11	11°536	5°225	62902	7	16°043	7°200
62558	17	2°977	24°134					62755	17	13°259	2°231	62829	4	13°351	5°304	62903	19	16°419	7°843
62559	5	4°936	24°387					62756*	20	13°824	2°605	62830	7	14°192	5°776	62904	7	16°937	7°448
62560	9	6°479	24°770					62757	10	13°885	2°562	62831	7	14°295	5°565	62905	14	17°729	7°668
62561*	47	7°370	24°104					62758	13	14°529	2°035	62832	14	14°651	5°046	62906	15	17°760	7°570
62562	4	7°415	24°166					62759	5	16°938	2°786	62833	6	15°066	5°684	62907	13	18°274	7°889
62563	5	7°684	24°083					62760	14	17°182	2°552	62834	5	15°448	5°894	62908	16	20°467	7°343
62564	10	9°460	24°470					62761	12	20°413	2°515	62835	6	15°501	5°800	62909	14	20°910	7°202
62565	10	10°451	24°150					62762	19	20°819	2°028	62836	11	15°786	5°354	62910	15	21°759	7°706
62566	6	10°644	24°135					62763	5	24°252	2°060	62837	10	16°964	5°169	62911	7	22°692	7°011
62567*	18	10°947	24°880					62764	17	24°899	2°651	62838	8	17°333	5°964	62912	11	22°863	7°604
62568	12	11°238	24°835					62765	8	25°839	2°117	62839	7	17°431	5°648	62913	4	0°611	8°758
62569	7	11°886	24°171					62766	5	5°901	3°035	62840	11	18°175	5°673	62914	7	0°628	8°579
62570	4	12°029	24°260					62767	5	6°037	3°167	62841	9	22°798	5°412	62915	6	2°134	8°290
62571*	25	13°459	24°623					62768	6	6°283	3°938	62842	7	23°676	5°902	62916*	21	2°699	8°965
62572	12	13°691	24°316					62769	6	7°239	3°852	62843	6	24°195	5°840	62917	10	3°028	8°668
62573	13	13°819	24°511					62770	4	7°986	3°871	62844	12	2°537	6°375	62918	7	3°150	8°961
62574	5	14°675	24°228					62771	7	9°247	3°283	62845	9	2°714	6°598	62919	12	4°035	8°780
62575	5	15°728	24°999					62772	6	9°952	3°397	62846	8	2°973	6°304	62920	6	4°097	8°274
62576*	14	16°212	24°055					62773	12	10°325	3°615	62847	8	3°045	6°271	62921*	12	4°844	8°846
62577	6	16°509	24°034					62774	6	11°800	3°249	62848	5	3°860	6°086	62922	9	5°430	8°067
62578	10	16°976	24°560					62775	13	12°748	3°564	62849	13	4°842	6°308	62923	9	6°357	8°581
62579	6	17°865	24°410					62776	4	13°134	3°845	62850	4	5°126	6°542	62924	4	7°399	8°235
62580	13	18°420	24°239					62777	7	14°946	3°794	62851	8	5°950	6°655	62925	10	9°254	8°460
62581*	40	20°702	24°669					62778	6	15°236	3°095	62852	8	6°464	6°639	62926	11	14°974	8°415
62582	9	20°784	24°554					62779	10	19°218	3°481	62853	5	7°135	6°703	62927	9	15°422	8°931
62583	8	20°839	24°035					62780	12	19°337	3°514	62854	11	7°537	6°872	62928	5	15°578	

62936	7	22.486	8.833	63010	7	19.221	10.307	63084*	14	3.411	13.835	63158	11	24.779	15.327	63232*	20	24.729	17.526
62937	6	22.617	8.936	63011	8	19.496	10.814	63085	5	3.500	13.842	63159	13	25.013	15.563	63233	7	24.846	17.955
62938	6	23.263	8.876	63012	12	19.539	10.646	63086	7	4.387	13.361	63160	10	25.470	15.690	63234	4	2.546	18.221
62939	4	23.500	8.895	63013	21	19.721	10.602	63087	4	5.115	13.463	63161	17	0.349	16.982	63235	11	2.666	18.518
62940	5	23.985	8.275	63014	13	20.427	10.268	63088*	21	5.700	13.671	63162	13	0.893	16.360	63236	5	4.189	18.053
62941	12	24.205	8.319	63015	11	20.554	10.829	63089*	20	5.851	13.903	63163	13	1.079	16.847	63237	21	4.385	18.127
62942	10	24.564	8.113	63016	9	23.036	10.216	63090*	21	6.513	13.521	63164	6	1.718	16.525	63238	5	7.894	18.069
62943	6	24.885	8.894	63017	4	23.200	10.470	63091	9	8.038	13.047	63165	22	3.531	16.381	63239	11	8.153	18.600
62944	5	25.469	8.187	63018	11	23.256	10.357	63092	11	8.161	13.876	63166	14	3.948	16.776	63240	7	9.991	18.185
62945	9	25.730	8.962	63019	10	1.423	11.374	63093	4	13.304	13.325	63167	15	3.949	16.769	63241	9	10.844	18.380
62946	8	0.432	9.918	63020	5	3.614	11.880	63094*	17	13.402	13.119	63168	10	4.984	16.961	63242	11	11.581	18.544
62947*	14	0.964	9.094	63021*	22	8.213	11.772	63095*	14	15.105	13.353	63169*	11	5.358	16.766	63243	12	12.295	18.267
62948	7	2.385	9.507	63022	9	8.372	11.484	63096	12	15.403	13.232	63170	10	7.956	16.575	63244	8	12.513	18.529
62949	12	3.087	9.077	63023*	44	9.521	11.792	63097	11	16.068	13.440	63171	20	8.774	16.433	63245	12	14.876	18.213
62950	9	3.265	9.610	63024	14	10.522	11.977	63098*	19	16.291	13.669	63172	4	10.451	16.936	63246	11	15.539	18.905
62951	14	3.731	9.395	63025	11	11.033	11.431	63099	8	16.390	13.790	63173	5	11.478	16.421	63247	9	15.950	18.804
62952	6	4.256	9.250	63026	7	11.169	11.857	63100*	19	19.374	13.511	63174*	17	12.650	16.022	63248	11	20.224	18.642
62953*	14	4.827	9.083	63027	11	12.281	11.819	63101	10	23.201	13.346	63175	15	12.667	16.043	63249	8	20.593	18.869
62954	9	5.203	9.772	63028	10	12.603	11.163	63102	8	23.366	13.264	63176	12	12.730	16.609	63250	13	22.460	18.695
62955	6	5.351	9.519	63029	5	12.855	11.582	63103	5	23.785	13.881	63177	9	13.461	16.516	63251	9	23.316	18.185
62956	5	5.620	9.489	63030	5	13.704	11.177	63104	12	24.306	13.583	63178	7	13.849	16.669	63252	7	23.817	18.948
62957	6	5.632	9.497	63031*	38	14.072	11.549	63105	5	25.035	13.335	63179	13	14.306	16.104	63253	4	24.808	18.303
62958	13	5.689	9.199	63032	4	14.824	11.550	63106	9	25.924	13.995	63180	11	15.159	16.308	63254	8	24.871	18.072
62959*	40	6.449	9.184	63033	5	16.796	11.072	63107	20	0.923	14.571	63181	9	16.657	16.397	63255	11	25.134	18.930
62960	6	8.378	9.780	63034	15	18.194	11.880	63108	8	1.490	14.658	63182*	35	16.841	16.909	63256	4	1.150	19.038
62961	11	8.757	9.361	63035	6	19.100	11.859	63109	5	2.770	14.721	63183	12	18.005	16.814	63257	8	1.530	19.123
62962	15	9.159	9.057	63036	5	19.720	11.879	63110	10	4.353	14.950	63184	6	19.204	16.280	63258*	15	1.799	19.012
62963	15	9.224	9.480	63037	12	20.330	11.090	63111	11	4.835	14.165	63185	4	19.503	16.779	63259	7	2.140	19.189
62964	8	9.348	9.769	63038	13	20.360	11.076	63112	4	5.554	14.287	63186	5	20.101	16.140	63260	18	3.847	19.182
62965	4	10.057	9.269	63039	9	20.546	11.861	63113	5	6.299	14.929	63187	8	20.660	16.166	63261	5	3.955	19.427
62966	5	10.769	9.146	63040	4	20.867	11.684	63114	5	10.381	14.397	63188	7	20.784	16.388	63262	4	4.470	19.029
62967	6	11.891	9.322	63041	5	23.109	11.791	63115	4	11.955	14.105	63189	5	21.599	16.629	63263	12	4.721	19.154
62968	12	12.530	9.839	63042	8	24.018	11.219	63116	10	12.096	14.897	63190	8	22.198	16.939	63264	12	6.250	19.310
62969	5	13.926	9.308	63043	6	24.509	11.606	63117	10	12.968	14.887	63191	9	22.436	16.136	63265	5	9.414	19.473
62970*	22	14.266	9.447	63044	15	0.823	12.270	63118	10	14.115	14.973	63192	11	22.513	16.127	63266*	39	9.842	19.729
62971	5	14.695	9.840	63045	4	2.019	12.610	63119*	26	15.225	14.329	63193	6	22.860	16.596	63267	11	10.393	19.275
62972	7	15.220	9.581	63046	12	2.461	12.538	63120	13	17.707	14.626	63194	14	23.576	16.737	63268	11	11.511	19.401
62973	19	15.459	9.553	63047	7	3.149	12.469	63121	4	19.435	14.063	63195	9	23.643	16.893	63269	10	11.700	19.903
62974	5	15.801	9.992	63048	14	3.488	12.412	63122	13	20.115	14.790	63196	10	24.164	16.204	63270	12	13.752	19.890
62975	10	16.069	9.315	63049	11	4.427	12.874	63123	14	20.896	14.528	63197	9	24.818	16.232	63271	7	15.207	19.821
62976	7	16.338	9.852	63050	9	4.708	12.126	63124	12	20.920	14.024	63198	11	0.070	17.216	63272*	13	17.304	19.993
62977	8	17.013	9.608	63051	12	4.874	12.725	63125*	24	20.967	14.060	63199*	20	1.556	17.250	63273	9	18.296	19.506
62978	14	18.319	9.782	63052	4	5.035	12.856	63126*	21	21.846	14.527	63200	5	1.785	17.847	63274	11	20.301	19.700
62979	11	19.376	9.947	63053	13	5.642	12.065	63127	10	22.468	14.555	63201	7	2.822	17.463	63275	10	21.460	19.966
62980	8	19.555	9.952	63054	7	5.700	12.703	63128	11	23.554	14.708	63202	11	3.296	17.184	63276	12	22.024	19.740
62981	6	20.247	9.849	63055	10	5.718	12.576	63129	8	24.466	14.409	63203*	26	3.443	17.250	63277	12	22.075	19.471
62982	13	21.069	9.685	63056	4	5.861	12.832	63130	11	25.477	14.391	63204	4	3.698	17.159	63278	5	22.232	19.229
62983*	12	21.770	9.098	63057	6	6.803	12.097	63131	7	25.881	14.899	63205	7	4.965	17.096	63279	11	25.297	19.432
62984*	13	21.915	9.594	63058	8	7.300	12.634	63132	7	25.968	14.706	63206	5	4.996	17.224	63280	6	25.889	19.533
62985	5	22.732	9.947	63059	7	7.633	12.245	63133	5	2.283	15.129	63207*	13	5.481	17.093	63281	9	0.280	20.276
62986	9	22.971	9.441	63060	4	8.599	12.969	63134	8	4.094	15.803	63208	5	7.553	17.870	63282	5	0.730	20.676
62987	13	23.986	9.059	63061	11	8.610	12.386	63135	4	5.432	15.962	63209	6	8.134	17.079	63283*	20	1.499	20.008
62988	7	24.672	9.329	63062	9	9.152	12.431	63136	7	5.446	15.977	63210	4	8.145	17.295	63284	8	1.899	20.249
62989	6	1.369	10.721	63063	8	10.470	12.270	63137	13	5.596	15.894	63211	11	8.293	17.407	63285	7	3.711	20.626
62990	11	4.361	10.130	63064	13	10.686	12.410	63138	17	7.500	15.279	63212	5	9.043	17.842	63286	13	3.968	20.016
62991	4	6.014	10.750	63065	5	12.109	12.671	63139	9	8.084	15.743	63213	18	9.239	17.939	63287	9	4.496	20.932
62992	11	6.261	10.458	63066	4	12.291	12.143	63140	8	8.314	15.091	63214	6	9.448	17.483	63288	14	4.544	20.751
62993	8	7.377	10.436	63067	7	13.436	12.242	63141	14	9.258	15.673	63215*	27	10.674	17.386	63289	4	4.628	20.486
62994	11	7.591	10.239	63068	11	15.541	12.938	63142	9	12.545	15.719	63216	9	12.205	17.840	63290	4	6.160	20.743
62995	12	7.720	10.002	63069	10	15.794	12.900	63143	4	14.511	15.178	63217	12	12.302	17.771	63291	11	6.886	20.531
62996*	24	8.189	10.869	63070	16	16.290	12.700	63144*	28	15.882	15.431	63218	4	12.394	17.704	63292	13	7.083	20.310
62997	10	8.528	10.075	63071	5	16.404	12.038	63145	12	16.160	15.960	63219	6	12.420	17.921	63293	10	7.399	20.016
62998	13	9.237	10.230	63072	11	18.238	12.527	63146	10	17.190	15.098	63220	10	12.545	17.884	63294	8	7.571</	

63306	6	14°552	20°520	63380	13	15°848	22°061	63454	5	22°453	24°675	63518	13	24°777	0°668	63592	6	14°495	4°056
63307	8	15°710	20°398	63381	11	15°953	22°729	63455	6	23°836	24°714	63519	10	2°432	1°229	63593	5	14°807	4°207
63308	5	16°266	20°387	63382	8	17°139	22°342	63456	6	23°997	24°373	63520	6	11°678	1°339	63594	5	15°765	4°077
63309	13	16°560	20°401	63383	7	17°286	22°165	63457	15	24°302	24°686	63521	5	12°217	1°826	63595*	14	16°262	4°998
63310	17	16°940	20°439	63384	8	18°388	22°471	63458	5	25°918	24°261	63522	5	12°549	1°063	63596	5	19°138	4°629
63311	12	17°710	20°883	63385	10	18°449	22°402	63459	10	1°005	25°047	63523	7	12°556	1°415	63597	7	20°041	4°141
63312	4	20°054	20°946	63386	11	18°814	22°472	63460	5	2°491	25°688	63524	5	12°755	1°846	63598	10	20°062	4°060
63313*	14	20°620	20°244	63387	11	19°393	22°556	63461*	22	3°784	25°194	63525	4	14°260	1°234	63599	7	20°500	4°964
63314	10	20°892	20°791	63388	7	19°896	22°951	63462	6	4°587	25°245	63526	7	14°794	1°082	63600	6	20°884	4°628
63315	8	20°904	20°245	63389	4	20°341	22°344	63463*	14	6°906	25°283	63527	7	14°990	1°595	63601	7	21°567	4°696
63316	10	22°336	20°566	63390	8	21°416	22°871	63464	10	7°214	25°782	63528	4	18°258	1°872	63602*	14	22°987	4°297
63317	8	22°824	20°920	63391	4	22°844	22°570	63465	9	7°813	25°676	63529	5	19°427	1°128	63603*	11	1°460	5°993
63318	6	22°972	20°784	63392*	22	24°046	22°451	63466	13	8°147	25°133	63530	8	21°517	1°432	63604	11	1°675	5°230
63319	5	23°227	20°020	63393	8	25°802	22°250	63467	9	8°700	25°468	63531	19	23°494	1°385	63605	12	2°401	5°006
63320	5	0°164	21°913	63394	16	1°034	23°483	63468	20	8°794	25°859	63532	4	1°141	2°494	63606	7	3°178	5°977
63321	12	1°861	21°934	63395*	28	2°086	23°385	63469*	12	9°321	25°010	63533	7	2°976	2°621	63607*	9	4°598	5°769
63322	13	2°848	21°573	63396	15	3°773	23°572	63470	10	9°975	25°641	63534	7	3°668	2°368	63608	4	4°644	5°830
63323	7	3°057	21°612	63397	6	5°804	23°829	63471	20	10°439	25°740	63535	6	4°017	2°567	63609*	13	4°861	5°058
63324	12	3°441	21°408	63398	11	9°067	23°605	63472	8	10°597	25°430	63536	5	4°083	2°566	63610	11	5°480	5°306
63325*	26	3°489	21°669	63399	10	9°923	23°644	63473	7	11°780	25°335	63537	7	5°257	2°611	63611	5	5°560	5°204
63326	7	3°940	21°205	63400	8	10°795	23°350	63474	5	12°363	25°853	63538	5	5°779	2°077	63612	4	6°125	5°404
63327	11	4°301	21°954	63401	9	11°106	23°062	63475	20	12°504	25°283	63539	6	5°828	2°100	63613	4	6°173	5°909
63328	10	5°850	21°471	63402	4	11°950	23°421	63476	8	12°911	25°231	63540	10	6°375	2°905	63614	10	6°297	5°599
63329	6	9°556	21°867	63403	5	12°639	23°104	63477	5	13°614	25°117	63541	9	7°100	2°764	63615	6	6°827	5°717
63330	5	9°789	21°909	63404	10	13°427	23°644	63478	4	18°762	25°671	63542*	40	7°572	2°724	63616	8	7°404	5°075
63331	7	10°286	21°198	63405	4	14°184	23°925	63479	9	19°567	25°842	63543	10	7°966	2°490	63617	5	8°313	5°223
63332	11	11°133	21°981	63406	10	15°572	23°039	63480	8	19°583	25°940	63544	8	8°155	2°550	63618	13	8°333	5°049
63333*	47	11°330	21°010	63407	6	16°769	23°764	63481	21	20°294	25°641	63545*	29	9°794	2°186	63619	4	8°484	5°136
63334	13	12°174	21°505	63408	7	16°956	23°386	63482	12	20°372	25°677	63546	8	10°801	2°266	63620*	17	9°269	5°407
63335	9	14°482	21°150	63409	9	17°134	23°473	63483	15	21°831	25°529	63547	4	11°094	2°459	63621	4	10°396	5°714
63336	12	15°404	21°410	63410	14	17°509	23°727	63484	24	21°890	25°658	63548	12	12°820	2°568	63622	4	11°173	5°604
63337	8	15°900	21°568	63411	6	17°956	23°189	63485	15	23°503	25°991	63549	7	14°050	2°360	63623	4	13°305	5°216
63338	9	16°197	21°153	63412	4	18°467	23°338	63486	8	23°814	25°460	63550	4	14°114	2°597	63624	4	14°232	5°151
63339*	30	16°586	21°008	63413	7	19°461	23°637	63487	11	25°471	25°986	63551	5	14°526	2°126	63625	12	14°744	5°717
63340	11	16°930	21°710	63414	7	19°617	23°118					63552	13	20°179	2°531	63626	7	16°840	5°621
63341	5	17°563	21°437	63415	14	20°023	23°069					63553	10	24°560	2°157	63627	5	17°680	5°562
63342	4	18°087	21°592	63416	7	20°659	23°676					63554	13	0°210	3°055	63628	5	17°811	5°611
63343	8	18°369	21°803	63417	9	21°575	23°018					63555	6	3°510	3°547	63629	9	18°419	5°172
63344	7	18°458	21°255	63418	11	21°584	23°288					63556	6	4°939	3°385	63630	7	18°517	5°137
63345	12	18°827	21°401	63419*	17	21°866	23°808					63557	15	7°010	3°476	63631	4	20°523	5°352
63346	13	19°017	21°284	63420	9	22°043	23°784					63558	10	8°324	3°908	63632	5	21°809	5°729
63347*	14	20°535	21°008	63421	15	22°163	23°690					63559	5	8°965	3°294	63633	8	23°875	5°161
63348	14	21°422	21°510	63422*	21	22°528	23°407					63560	14	9°278	3°061	63634	9	24°386	5°775
63349	4	22°971	21°369	63423	11	23°139	23°204					63561	5	11°346	3°590	63635	11	24°399	5°713
63350	7	24°028	21°692	63424	9	24°292	23°679					63562	6	12°195	3°126	63636	9	24°480	5°959
63351	6	24°210	21°674	63425	12	25°410	23°129					63563	4	13°124	3°100	63637	5	1°049	6°970
63352*	23	24°300	21°617	63426	9	25°777	23°481					63564	6	13°243	3°500	63638	12	5°942	6°146
63353*	14	24°559	21°298	63427	8	1°374	24°259					63565	5	13°552	3°013	63639	5	5°982	6°731
63354	10	25°501	21°390	63428	4	2°702	24°250					63566	21	14°107	3°610	63640	6	6°060	6°705
63355	9	25°530	21°739	63429	5	2°724	24°773					63567	4	14°525	3°266	63641	9	6°894	6°825
63356	9	25°640	21°040	63430	4	3°198	24°252					63568*	22	15°969	3°259	63642	8	9°565	6°791
63357	12	25°729	21°716	63431	5	3°823	24°884					63569	6	17°215	3°775	63643	12	9°632	6°625
63358	15	0°532	22°880	63432	12	3°991	24°059					63570*	13	18°143	3°063	63644	17	9°989	6°069
63359	11	1°911	22°717	63433	5	5°600	24°670					63571	19	20°783	3°689	63645	4	10°846	6°125
63360	10	2°625	22°103	63434	4	7°086	24°867					63572	10	21°894	3°538	63646	9	11°107	6°638
63361	9	2°816	22°261	63435	4	7°128	24°433					63573	6	22°104	3°323	63647	5	12°350	6°099
63362	4	3°215	22°732	63436	11	9°282	24°159					63574	6	22°912	3°299	63648	4	12°368	6°490
63363	10	4°216	22°304	63437	10	9°481	24°535					63575	5	23°204	3°677	63649	5	12°369	6°339
63364	9	4°242	22°690	63438	13	9°930	24°019					63576	12	25°265	3°328	63650	10	12°644	6°354
63365	10	4°987	22°038	63439	8	12°297	24°678					63577	5	25°786	3°661	63651	6	13°072	6°251
63366	11	5°516	22°781	63440	9	12°350	24°061					63578	4	1°116	4°352	63652	9	13°110	6°584
63367	5	6°072	22°335	63441	11	12°833	24°212					63579*	18	3°556	4°058	63653	4	13°848	6°333
63368	5	7°291	22°027	63442	8	13°658	24°367					63580	4	3°598	4°937	63654	4	14°378	6°224
63369	8	8°939	22°590	63443	5	14°306	24°461					63581	7	3°738	4°159	63655	4	14°554	6°258
63370	4	9°683	22°018	63444	9	14°430	24°799					63582	10	5°710	4°235	63656	4	14°658	6°013
63371	12	9°687	22°193	63445	6	16°376	24°113					63583	5	6°668	4°219	63657	7	15°322	6°189
63372	12	11°465	22°937	63446	9	17°399	24°065					63584	10	6°786	4°655	63658	6	16°697	6°169
63373	11																		

63666	14	25°436	6°544	63740*	21	17°495	9°591	63814	8	21°204	11°160	63888	8	6°987	14°142	63962	7	3°049	17°300
63667	5	25°954	6°935	63741*	26	18°084	9°676	63815	9	21°490	11°151	63889	6	7°568	14°838	63963	5	4°374	17°063
63668	12	1°643	7°579	63742	8	18°211	9°993	63816	13	21°866	11°701	63890	5	8°366	14°118	63964	5	7°713	17°043
63669	5	3°010	7°968	63743	5	19°572	9°290	63817	7	21°876	11°426	63891	6	8°457	14°934	63965	5	8°084	17°179
63670	7	4°660	7°843	63744	11	19°727	9°273	63818	4	22°582	11°297	63892	6	10°735	14°313	63966	5	8°597	17°510
63671	7	5°765	7°411	63745	5	19°745	9°530	63819	4	23°132	11°801	63893*	30	11°822	14°834	63967	4	9°466	17°918
63672	11	7°472	7°612	63746	11	19°944	9°443	63820	4	23°405	11°733	63894	4	12°644	14°083	63968	5	9°926	17°795
63673	7	8°056	7°958	63747	7	20°527	9°287	63821	6	23°726	11°454	63895	6	12°836	14°349	63969	5	10°786	17°394
63674	9	8°243	7°356	63748	4	21°753	9°987	63822	6	24°353	11°565	63896	5	13°345	14°470	63970	6	11°723	17°144
63675	11	8°775	7°663	63749	8	22°019	9°193	63823	9	1°731	12°195	63897	7	13°406	14°016	63971	8	13°857	17°347
63676	6	8°914	7°412	63750	9	22°659	9°054	63824	6	1°756	12°191	63898	4	13°935	14°577	63972	8	14°509	17°051
63677	7	11°566	7°706	63751*	12	22°703	9°850	63825*	26	2°569	12°224	63899	5	15°540	14°646	63973	14	15°250	17°114
63678	9	13°367	7°713	63752	6	23°398	9°496	63826	10	2°863	12°835	63900	10	17°389	14°133	63974	9	15°448	17°981
63679	4	14°548	7°721	63753	5	25°529	9°083	63827	5	5°620	12°660	63901	10	19°211	14°727	63975	9	15°855	17°523
63680*	24	17°192	7°034	63754	8	25°755	9°697	63828	8	6°234	12°167	63902	8	22°284	14°087	63976	4	16°623	17°601
63681	5	17°757	7°714	63755	8	4°492	10°319	63829*	23	6°551	12°081	63903	5	22°431	14°861	63977	10	17°086	17°187
63682	6	18°067	7°872	63756	8	4°515	10°203	63830	4	7°487	12°666	63904	9	23°121	14°958	63978	4	17°524	17°566
63683	14	22°629	7°570	63757	6	4°615	10°463	63831	10	8°695	12°102	63905	9	23°463	14°676	63979	7	17°887	17°013
63684	5	23°641	7°588	63758	10	5°166	10°852	63832*	35	10°598	12°156	63906	8	0°407	15°729	63980	9	17°930	17°976
63685	5	0°014	8°526	63759	5	5°466	10°138	63833	6	11°715	12°167	63907	10	0°647	15°962	63981	10	18°124	17°398
63686	5	1°709	8°058	63760	5	6°886	10°129	63834	5	11°750	12°300	63908	4	1°499	15°277	63982	14	18°401	17°567
63687	6	3°509	8°601	63761	11	6°937	10°493	63835	8	12°905	12°324	63909	4	1°580	15°078	63983	9	20°640	17°892
63688*	14	5°339	8°837	63762	4	10°710	10°443	63836	14	14°294	12°017	63910	6	2°677	15°206	63984	9	22°124	17°340
63689	4	7°180	8°316	63763	5	11°351	10°355	63837	9	14°535	12°672	63911	4	3°220	15°769	63985	4	0°569	18°473
63690	4	7°714	8°885	63764	5	11°398	10°317	63838	6	14°754	12°288	63912	7	3°730	15°354	63986	10	2°394	18°245
63691	5	7°718	8°131	63765	15	11°668	10°290	63839*	21	15°894	12°758	63913*	18	5°685	15°210	63987	7	2°453	18°228
63692	5	8°425	8°266	63766	8	11°738	10°606	63840	5	16°171	12°983	63914	6	8°105	15°297	63988	4	3°150	18°653
63693	4	9°707	8°045	63767	8	12°984	10°425	63841	6	17°749	12°450	63915	5	9°747	15°575	63989*	12	3°333	18°195
63694	5	11°367	8°704	63768	7	12°993	10°425	63842	7	18°715	12°401	63916	6	10°139	15°446	63990	4	3°362	18°262
63695	6	12°348	8°495	63769*	21	14°515	10°164	63843	4	19°541	12°881	63917*	28	12°481	15°668	63991	5	3°726	18°079
63696	4	16°830	8°216	63770	13	15°861	10°980	63844	4	20°803	12°206	63918*	22	12°986	15°230	63992	9	6°621	18°115
63697	9	16°892	8°295	63771	9	17°004	10°283	63845*	16	22°825	12°217	63919	7	14°799	15°303	63993	10	9°583	18°578
63698	6	17°601	8°740	63772	7	17°075	10°285	63846	7	23°534	12°846	63920	4	14°934	15°281	63994	10	10°044	18°493
63699*	35	18°730	8°040	63773	8	17°929	10°907	63847*	11	23°614	12°942	63921	7	16°095	15°506	63995*	21	10°610	18°354
63700	5	19°226	8°151	63774	12	18°856	10°025	63848	9	23°935	12°074	63922	8	16°384	15°902	63996	13	10°811	18°362
63701	6	20°055	8°360	63775	4	20°510	10°489	63849	7	24°645	12°349	63923	11	20°587	15°856	63997	6	10°909	18°879
63702	7	20°074	8°125	63776	11	21°135	10°501	63850	4	24°983	12°388	63924	7	21°036	15°259	63998	4	12°276	18°298
63703	7	20°493	8°953	63777*	14	22°036	10°755	63851	10	25°291	12°924	63925	7	22°087	15°099	63999	8	13°119	18°904
63704	10	21°237	8°278	63778	5	22°336	10°007	63852	11	25°311	12°944	63926	14	23°606	15°832	64000	6	13°137	18°513
63705	4	21°572	8°199	63779*	25	22°565	10°176	63853	5	2°009	13°973	63927	7	0°045	16°397	64001	7	14°875	18°314
63706	6	22°230	8°502	63780	5	22°737	10°389	63854	4	2°073	13°012	63928	5	0°469	16°634	64002	11	15°700	18°270
63707	5	23°246	8°024	63781	12	22°759	10°771	63855	4	2°776	13°755	63929	7	1°107	16°076	64003	6	17°552	18°131
63708	5	23°599	8°405	63782	4	22°936	10°496	63856	5	4°563	13°388	63930	5	2°305	16°816	64004	5	18°375	18°607
63709*	13	24°007	8°786	63783*	17	23°068	10°570	63857	4	5°026	13°492	63931	4	2°543	16°337	64005	5	18°493	18°122
63710	6	1°199	9°341	63784*	14	23°154	10°311	63858*	12	5°267	13°831	63932	5	2°764	16°295	64006	12	20°093	18°686
63711	4	1°678	9°077	63785	15	24°167	10°936	63859	5	6°175	13°817	63933	4	3°214	16°540	64007	9	20°437	18°164
63712	10	2°047	9°935	63786	8	25°312	10°643	63860	4	6°204	13°634	63934	4	3°419	16°129	64008	4	20°872	18°066
63713	13	2°353	9°123	63787	4	25°942	10°530	63861*	29	6°594	13°065	63935	5	4°184	16°907	64009*	11	22°480	18°074
63714	4	2°418	9°770	63788	7	1°966	11°827	63862	5	7°936	13°123	63936	5	4°826	16°884	64010	4	22°556	18°870
63715	7	2°825	9°006	63789	5	3°355	11°365	63863	5	8°004	13°245	63937	6	4°844	16°556	64011	4	22°958	18°173
63716	10	3°793	9°183	63790	6	3°652	11°865	63864	10	9°682	13°928	63938	4	4°886	16°946	64012	6	24°609	18°856
63717	9	3°957	9°792	63791	13	3°714	11°012	63865	6	10°435	13°836	63939	8	5°998	16°546	64013	8	25°955	18°519
63718	5	4°166	9°532	63792*	12	3°986	11°738	63866	4	10°473	13°936	63940	4	6°313	16°475	64014	6	0°853	19°325
63719	8	4°740	9°769	63793	4	5°246	11°896	63867	4	11°567	13°061	63941	4	7°515	16°574	64015	5	1°027	19°823
63720*	14	5°484	9°073	63794	5	5°783	11°174	63868	5	12°651	13°156	63942	5	8°834	16°385	64016	7	2°537	19°684
63721	6	6°084	9°994	63795	4	5°821	11°733	63869	8	12°878	13°758	63943	18	9°463	16°681	64017	4	3°415	19°294
63722	9	6°518	9°559	63796	5	6°218	11°476	63870	5	13°363	13°215	63944	4	12°415	16°597	64018	9	3°685	19°125
63723	4	6°881	9°050	63797	6	7°269	11°358	63871	17	14°955	13°840	63945	6	13°161	16°926	64019*	16	4°482	19°941
63724	4	7°569	9°636	63798	6	7°640	11°577	63872	11	15°508	13°838	63946	5	14°147	16°546	64020	4	5°713	19°165
63725	4	8°206	9°108	63799	8	7°732	11°786	63873	4	15°746	13°192	63947	8	14°180	16°519	64021	13	6°486	19°338
63726	7	8°352	9°235	63800	5	9°541	11°310	63874	5	16°229	13°205	63948	7	15°720	16°122	64022	13	6°494	19°357
63727	10	9°680	9°778	63801	5	9°586	11°558	63875	9	17°876	13°717	63949	5	16°014	16°024	64023	8	6°708	19°842
63728	19	10°076	9°069	63802	4	12°404	11°215	63876*	18	18°457	13°004	63950	4	17°205	16°615	64024	10	7°765	19°738
63729	12	11°387	9°431	63803	5	12°870	11°706	6											

64036	8	22°726	19°310	64110	6	1°985	23°645	64257	10	14°517	4°258	64331	12	6°678	8°808
64037	6	25°198	19°976	64111*	14	2°167	23°508	64258	10	17°470	4°847	64332	8	6°935	8°601
64038	4	25°332	19°051	64112	12	4°711	23°979	64259	8	18°684	4°441	64333	8	7°743	8°529
64039	6	25°667	19°311	64113*	20	4°955	23°788	64260	11	19°427	4°734	64334	12	8°522	8°624
64040*	14	25°726	19°415	64114	10	5°216	23°546	64261	10	20°830	4°185	64335	8	8°952	8°298
64041	5	2°640	20°343	64115	7	5°367	23°880	64262	12	0°338	5°945	64336	11	9°481	8°928
64042*	29	2°706	20°210	64116	19	6°546	23°185	64263*	13	2°306	5°036	64337	9	9°791	8°206
64043*	14	4°084	20°084	64117	8	6°919	23°985	64264	9	4°068	5°741	64338	8	10°230	8°495
64044	4	6°145	20°896	64118	5	7°045	23°718	64265	11	4°588	5°771	64339	10	12°438	8°703
64045	5	6°145	20°615	64119	5	7°901	23°384	64266*	29	5°668	5°672	64340	8	12°895	8°074
64046	5	6°433	20°219	64120	5	8°075	23°194	64267	12	9°026	5°912	64341	10	13°597	8°965
64047	9	7°887	20°602	64121	5	10°857	23°144	64268	9	10°373	5°229	64342	10	14°427	8°045
64048	12	8°187	20°630	64122	7	11°182	23°223	64269	9	12°868	5°008	64343	9	14°656	8°917
64049*	23	8°629	20°432	64123	5	12°227	23°557	64270	8	12°978	5°221	64344	7	14°769	8°445
64050	10	10°770	20°999	64124*	27	14°075	23°692	64271	8	13°085	5°286	64345	10	15°352	8°216
64051	5	10°796	20°880	64125	4	15°026	23°869	64272	10	15°070	5°606	64346	9	16°622	8°395
64052	6	11°134	20°643	64126	5	16°075	23°701	64273	8	15°325	5°374	64347	10	16°995	8°356
64053	6	13°109	20°730	64127	10	16°925	23°647	64274	8	15°429	5°896	64348*	19	25°005	8°100
64054	9	13°986	20°445	64128	4	17°376	23°306	64275	10	15°831	5°857	64349	13	0°000	9°050
64055*	20	15°771	20°927	64129	4	17°500	23°348	64276	7	17°485	5°612	64350	9	1°778	9°937
64056*	16	15°773	20°983	64130	11	19°198	23°050	64277	7	20°247	5°869	64351	16	2°467	9°807
64057	8	16°283	20°954	64131	7	19°648	23°520	64278	10	20°288	5°055	64352	9	3°615	9°907
64058	7	16°445	20°835	64132	6	20°816	23°047	64279	8	21°626	5°477	64353	10	4°347	9°281
64059	8	16°684	20°115	64133	12	22°722	23°225	64280	12	0°090	6°444	64354	11	5°193	9°705
64060	7	16°774	20°051	64134	7	24°142	23°550	64281	9	0°327	6°004	64355	9	5°439	9°291
64061	9	19°790	20°172	64135	7	25°063	23°583	64282	10	0°427	6°189	64356	16	5°459	9°968
64062	4	21°628	20°772	64136	12	25°793	23°999	64283	19	1°398	6°763	64357	9	6°618	9°504
64063	7	22°117	20°768	64137*	17	1°900	24°569	64284*	14	2°487	6°006	64358	10	7°133	9°338
64064*	10	0°335	21°707	64138	8	10°348	24°841	64285	10	6°173	6°165	64359	12	9°203	9°830
64065	5	1°280	21°775	64139	16	11°691	24°188	64286	10	7°000	6°480	64360	11	9°991	9°392
64066	4	1°412	21°422	64140	4	13°787	24°371	64287	11	9°264	6°149	64361	9	12°331	9°181
64067*	10	1°815	21°893	64141	14	14°503	24°056	64288*	12	9°320	6°962	64362	8	12°614	9°335
64068*	4	2°320	21°167	64142	4	15°048	24°944	64289	8	9°455	6°931	64363	9	12°681	9°118
64069	4	3°575	21°610	64143	9	15°972	24°861	64290	10	10°061	6°735	64364	8	12°850	9°031
64070	11	3°763	21°315	64144	5	18°357	24°498	64291	12	10°064	6°758	64365	10	12°059	9°900
64071	7	4°363	21°677	64145	7	19°330	24°857	64292	8	10°666	6°006	64366	10	15°513	9°347
64072	4	4°363	21°370	64146	7	19°484	24°705	64293	8	12°819	6°856	64367	10	16°452	9°768
64073	4	10°399	21°713	64147	4	21°506	24°494	64294	10	13°386	6°218	64368	10	16°633	9°427
64074	6	13°058	21°208	64148	7	21°513	24°044	64295	10	13°475	6°593	64369	9	17°107	9°332
64075	6	13°968	21°489	64149	10	23°329	24°855	64296	9	16°288	6°720	64370	10	20°883	9°190
64076	4	14°039	21°745	64150*	12	23°685	24°569	64297	10	16°417	6°999	64371	9	24°129	9°984
64077	7	16°005	21°653	64151*	17	25°450	24°955	64298	9	17°303	6°797	64372	9	25°050	9°750
64078	10	17°387	21°622	64152	6	0°163	25°104	64299	9	18°559	6°150	64373	10	1°349	10°899
64079	7	18°658	21°024	64153	6	2°994	25°174	64300	8	20°743	6°054	64374	10	4°203	10°792
64080	4	19°328	21°963	64154	9	4°285	25°392	64301	9	22°644	6°425	64375	9	4°692	10°686
64081	6	22°908	21°640	64155*	20	4°471	25°544	64302	11	22°966	6°716	64376	10	6°586	10°016
64082*	15	0°085	22°034	64156	6	6°700	25°272	64303*	20	23°292	6°047	64377	9	8°581	10°414
64083	5	1°320	22°122	64157*	25	7°047	25°350	64304	9	23°611	6°371	64378	10	9°197	10°829
64084	6	1°516	22°097	64158	5	10°347	25°492	64305	8	24°348	6°174	64379	8	10°570	10°670
64085	4	2°200	22°910	64159	7	13°913	25°043	64306	8	1°922	7°147	64380	9	11°337	10°145
64086	5	2°555	22°172	64160	5	15°715	25°103	64307	8	4°644	7°704	64381	8	12°642	10°617
64087	5	2°748	22°580	64161	6	17°385	25°737	64308	10	4°811	7°906	64382	8	15°215	10°005
64088	12	4°802	22°461	64162*	30	17°896	25°845	64309	8	5°701	7°855	64383	11	18°379	10°056
64089	9	5°636	22°986	64163	4	20°126	25°601	64310	11	7°528	7°262	64384	8	19°434	10°779
64090	4	6°950	22°345	64164	7	20°413	25°773	64311	10	8°243	7°437	64385	10	19°450	10°410
64091	4	7°727	22°405	64165	5	25°588	25°414	64312	11	8°760	7°352	64386	8	24°152	10°178
64092	7	8°589	22°807					64313	10	8°961	7°073	64387	20	0°200	11°215
64093*	12	8°599	22°627					64314	10	9°166	7°568	64388	8	0°399	11°845
64094	6	9°045	22°689					64315	10	11°211	7°454	64389	7	2°265	11°100
64095	5	11°727	22°500					64316	10	13°050	7°461	64390	10	2°313	11°660
64096	7	13°765	22°145					64317	10	14°950	7°214	64391	12	2°732	11°128
64097	6	14°129	22°411					64318*	21	16°130	7°955	64392	8	2°857	11°080
64098	4	14°616	22°646					64319	9	16°856	7°116	64393	9	3°058	11°090
64099	5	16°123	22°137					64320	10	17°205	7°468	64394	7	3°366	11°714
64100	5	16°918	22°998					64321	11	17°656	7°746	64395	10	4°783	11°906
64101	7	17°479	22°973					64322	10	17°854	7°045	64396	8	8°635	11°428
64102	8	17°730	22°444					64323	11	17°917	7°062	64397	12	10°412	11°172
64103	4	20°685	22°447					64324	12	19°092	7°841	64398	8	10°606	11°384
64104	4	22°444	22°381					64325*	20	19°436	7°064	64399	12	15°766	11°029
64105	6	23°096	22°376					64326	9	23°916	7°021	64400	10	16°274	11°905
64106	5	23°148	22°684					64327*	18	24°108	7°152	64401	9	19°454	11°572
64107*	22	24°095	22°858					64328	10	24°444	7°798	64402*	10	21°059	11°940
64108	8	1°235	23°516					64329	11	3°862	8°297	64403	8	21°582	11°880
64109	4	1°609	23°859					64330	9	4°269	8°555	64404	11	21°661	11°482

R. A. 21^h 18^m

Plate 228 ; 1892 Oct. 22.

Provisional Constants.

A	B	C
+00750	+00671	-4554

D	E	F
-00688	+00768	+0441

Mag. = 13.8 - 1.02 $\sqrt{d}$

No.	d	x	y
64201	16	0°630	0°852
64202	8	11°561	0°890
64203	8	13°419	0°938
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64206	9	14°098	0°669
64207	10	14°585	0°661
64208	8	14°933	0°228
64209	11	18°838	0°517
64210	12	19°471	0°781
64211*	50	19°651	0°775
64212*	20	24°820	0°014
64213	8	25°228	0°553
64214	9	7°742	1°116
64215	10	8°478	1°382
64216	10	8°816	1°135
64217	8	9°990	1°953
64218	9	10°873	1°626
64219	10	11°260	1°511
64220*	12	11°442	1°237
64221	10	12°068	1°421
64222	12	12°249	1°845
64223*	20	14°296	1°035
64224	8	21°015	1°914
64225	10	0°431	2°356
64226*	30	5°734	2°009
64227	7	11°172	2°491
64228	12	14°042	2°823
64229	12	18°779	2°103
64230	18	18°834	2°031
64231	10	18°920	2°574
64232	12	19°596	2°230
64233	10	19°773	2°946
64234	8	20°365	2°997
64235*	12	21°584	2°923
64236	7	22°569	2°256
64237	12	1°170	3°525
64238	8	1°702	3°853
64239	10	2°634	3°896
64240	9	5°397	3°847
64241	9	8°911	3°091
64242	10	12°534	3°963
64243	9	13°141	3°960
64244	8	14°617	3°264
64245*	12	14°985	3°730
64246	11	18°633	3°626
64247	8	20°624	3°123
64248	8	21°933	3°299
64249*	20	5°195	4°667
64250	9	5°396	4°819
64251	10	5°564	4°355
64252*	30	7°931	4°554
64253	12	12°458	4°455
64254*	10	13°210	4°018
64255	11	13°780	4°176
64256	9	13°946	4°928

64405*	10	22°065	11°908	64479	20	9°488	15°925	64553	9	22°100	19°527	64627	10	23°325	23°625	64726	9	16°935	0°347
64406	10	24°055	11°445	64480	12	9°499	15°289	64554	8	22°288	19°717	64628	9	25°906	23°282	64727	9	19°296	0°784
64407	9	0°706	12°630	64481	9	10°042	15°054	64555	8	22°734	19°026	64629*	15	2°076	24°352	64728	6	20°735	0°763
64408	10	3°816	12°729	64482	10	11°307	15°413	64556	12	23°474	19°267	64630	10	6°206	24°805	64729*	18	23°459	0°921
64409	12	4°611	12°736	64483	7	11°545	15°455	64557	9	1°405	20°310	64631*	11	6°575	24°661	64730	5	24°106	0°833
64410	7	5°742	12°766	64484	11	16°281	15°694	64558	12	3°315	20°198	64632*	12	9°819	24°849	64731	5	24°807	0°662
64411	8	5°767	12°147	64485	8	17°010	15°032	64559	8	4°738	20°201	64633	10	12°106	24°690	64732	4	0°395	1°666
64412	10	7°504	12°667	64486	8	17°902	15°080	64560	9	5°343	20°103	64634	12	16°196	24°100	64733	4	1°551	1°745
64413*	19	8°985	12°212	64487	7	25°221	15°618	64561	10	7°668	20°949	64635*	14	16°365	24°878	64734	5	2°115	1°804
64414*	12	9°374	12°009	64488	8	25°263	15°201	64562	9	8°165	20°565	64636	11	20°346	24°281	64735	6	2°177	1°622
64415	8	9°939	12°926	64489	16	0°049	16°856	64563	8	8°574	20°616	64637*	10	21°625	24°215	64736	4	3°667	1°027
64416	12	11°701	12°300	64490	16	0°262	16°351	64564	9	8°819	20°068	64638*	9	23°720	24°549	64737	9	6°085	1°666
64417	10	14°844	12°477	64491	11	2°035	16°165	64565	10	9°021	20°215	64639*	20	1°748	25°316	64738	11	6°503	1°531
64418	9	14°970	12°363	64492	10	4°120	16°749	64566	11	10°358	20°685	64640	8	4°874	25°630	64739	11	8°302	1°243
64419	12	15°036	12°686	64493	8	4°596	16°918	64567	8	11°398	20°879	64641	9	5°893	25°640	64740	5	9°018	1°754
64420	11	15°542	12°843	64494	11	4°898	16°525	64568	10	12°591	20°906	64642	8	7°462	25°136	64741	10	9°472	1°963
64421	12	17°329	12°595	64495	12	6°865	16°204	64569	8	13°793	20°867	64643*	14	11°167	25°335	64742	13	9°994	1°605
64422	7	18°198	12°054	64496	9	7°871	16°541	64570	9	13°974	20°659	64644	8	11°855	25°328	64743	4	10°193	1°925
64423	9	18°563	12°831	64497	8	8°323	16°110	64571	12	14°051	20°975	64645*	14	13°124	25°524	64744	8	10°360	1°691
64424*	12	24°373	12°395	64498*	20	8°591	16°192	64572	14	16°300	20°887	64646	10	15°732	25°338	64745*	23	10°384	1°384
64425	8	24°951	12°479	64499	8	8°603	16°031	64573	8	17°035	20°695	64647	9	15°926	25°730	64746*	26	10°717	1°604
64426	12	1°368	13°198	64500	8	12°070	16°818	64574	14	17°099	20°886	64648*	12	17°700	25°939	64747	11	11°961	1°520
64427	14	1°387	13°217	64501	12	16°118	16°956	64575	8	17°471	20°814	64649	10	18°306	25°418	64748	5	12°460	1°168
64428	11	3°196	13°271	64502	9	16°816	16°777	64576	12	19°896	20°176	64650	45	20°748	25°486	64749	4	13°372	1°621
64429	12	3°555	13°586	64503	10	17°121	16°081	64577	10	20°553	20°943	64651	10	21°843	25°547	64750	6	13°522	1°501
64430*	16	4°704	13°448	64504	12	17°613	16°223	64578	8	24°832	20°166	64652	9	24°092	25°101	64751	9	14°087	1°091
64431	8	4°819	13°175	64505	8	21°539	16°856	64579	10	2°913	21°846					64752	8	14°717	1°048
64432	10	5°538	13°117	64506	9	22°055	16°149	64580	11	5°630	21°492					64753	8	18°330	1°934
64433	8	6°930	13°429	64507*	16	25°770	16°675	64581*	19	6°976	21°466					64754	7	18°652	1°659
64434*	20	7°112	13°141	64508	10	3°841	17°404	64582	9	8°855	21°999					64755	7	19°359	1°954
64435	9	8°159	13°596	64509	10	5°199	17°592	64583	10	9°844	21°661					64756	5	19°375	1°305
64436	8	8°670	13°862	64510	9	9°090	17°164	64584	9	10°289	21°985					64757	12	20°525	1°558
64437	10	9°291	13°155	64511	12	9°248	17°560	64585*	24	10°381	21°987					64758	7	20°748	1°714
64438	9	9°680	13°599	64512	11	10°221	17°921	64586	8	10°583	21°245					64759	4	21°554	1°449
64439	8	10°206	13°217	64513	12	13°554	17°562	64587*	22	12°760	21°264					64760*	19	21°652	1°444
64440	8	11°419	13°793	64514	12	14°130	17°385	64588	20	16°916	21°761					64761	10	23°845	1°838
64441	9	13°549	13°157	64515*	15	16°776	17°296	64589	9	17°362	21°161					64762*	24	24°135	1°161
64442*	14	15°518	13°451	64516	11	18°286	17°737	64590	7	18°400	21°450					64763	12	24°236	1°576
64443	10	15°563	13°023	64517	9	19°573	17°396	64591	9	18°517	21°544					64764	10	1°325	2°662
64444*	32	16°698	13°549	64518*	16	20°049	17°207	64592	12	19°494	21°377					64765*	32	3°945	2°674
64445	12	17°652	13°121	64519	8	20°615	17°098	64593	9	20°621	21°439					64766	4	4°614	2°492
64446*	14	18°646	13°580	64520	12	25°872	17°501	64594	8	20°627	21°574					64767	7	4°886	2°275
64447	11	18°851	13°105	64521	10	2°139	18°825	64595	14	2°645	22°576					64768	5	5°310	2°336
64448	8	18°892	13°886	64522*	20	4°405	18°041	64596*	26	7°282	22°417					64769	9	5°827	2°521
64449	9	19°313	13°314	64523	10	6°708	18°577	64597	8	7°724	22°536					64770	4	6°061	2°924
64450	8	19°702	13°082	64524	8	7°499	18°405	64598	10	8°358	22°074					64771	15	6°680	2°147
64451	10	23°967	13°578	64525*	36	8°144	18°037	64599	9	8°998	22°344					64772	12	7°486	2°767
64452	9	2°180	14°679	64526	10	10°103	18°408	64600	10	9°114	22°356					64773	4	7°510	2°044
64453	9	2°408	14°838	64527	8	11°718	18°962	64601	10	12°294	22°062					64774	4	8°280	2°394
64454	8	6°783	14°185	64528	12	14°065	18°044	64602*	14	13°842	22°623					64775	10	8°399	2°713
64455	9	8°938	14°659	64529	7	14°370	18°636	64603	19	13°995	22°178					64776	4	8°482	2°151
64456	8	10°029	14°385	64530	8	14°716	18°209	64604	9	15°261	22°720					64777	9	10°694	2°249
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64458	7	11°633	14°536	64532	10	16°643	18°414	64606	9	16°992	22°766					64779	6	12°945	2°325
64459	10	12°813	14°250	64533	10	17°936	18°165	64607	8	21°984	22°273					64780	18	13°723	2°006
64460	10	13°441	14°536	64534	8	18°342	18°452	64608*	30	0°343	23°234					64781	5	14°059	2°410
64461	14	13°672	14°120	64535	8	18°502	18°857	64609	8	1°333	23°947					64782	6	14°687	2°530
64462	11	15°975	14°606	64536*	25	23°420	18°396	64610*	11	3°429	23°341					64783	7	15°044	2°753
64463*	16	16°158	14°050	64537	8	25°193	18°542	64611*	13	3°670	23°646					64784	5	16°484	2°621
64464	10	16°309	14°511	64538	16	25°931	18°051	64612	7	4°276	23°471					64785	6	17°053	2°063
64465	11	19°460	14°180	64539	8	0°784	19°190	64613	10	6°004	23°949					64786*	36	18°406	2°786
64466	7	20°687	14°766	64540	10	1°866	19°629	64614	12	7°108	23°128					64787	8	18°567	2°958
64467	8	20°829	14°556	64541*	20	1°926	19°733	64615	10	7°896	23°668					64788	4	18°896	2°665
64468	12	20°866	14°774	64542	11	3°328	19°590	64616*	12	9°841	23°966					64789	7	20°098	2°264
64469	8	2°170	15°951	64543	8	3°523	19°784	64617	10	10°971	23°302					64790*	16	25°089	2°823
64470	9	2°640	15°870	64544	10	6°158	19°529	64618	15	12°287	23°386					64791	7	2°257	3°727
64471	8	2°812	15°755	64545	11	6°707	19°168	64619*	27	12°750	23°015					64792	12	2°520	3°658
64472	18	3°063	15°255	64546	9	7°205	19°612	64620	10	15°184									

64800	6	10°057	3'406	64874	6	4°694	5'471	64948	7	11°032	6'487	65022	8	17°142	7°178	65096	5	16°383	9°852
64801	8	11°049	3'704	64875	15	4°745	5°616	64949	11	12°063	6°813	65023	4	17°495	7°321	65097	6	16°403	9°246
64802	5	12°186	3°008	64876	4	4°854	5°520	64950	4	12°186	6°748	65024	5	17°971	7°549	65098	4	16°574	9°076
64803	10	12°642	3°581	64877	4	5°824	5°320	64951	6	12°188	6°162	65025	6	18°880	7°590	65099	5	16°850	9°696
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64805	4	12°976	3°340	64879	5	6°345	5°212	64953	9	12°797	6°031	65027	9	19°556	7°763	65101	7	18°173	9°439
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64807	9	14°614	3°743	64881	5	7°276	5°212	64955	4	14°039	6°244	65029	8	21°596	7°723	65103*	23	19°138	9°925
64808	12	15°142	3°642	64882	5	7°496	5°855	64956	5	14°125	6°937	65030*	36	23°083	7°762	65104	8	20°134	9°938
64809	6	15°206	3°890	64883	5	7°642	5°722	64957	9	14°996	6°403	65031	12	25°173	7°522	65105	7	20°613	9°200
64810	5	15°516	3°474	64884	5	7°678	5°176	64958	11	15°038	6°029	65032	4	25°263	7°343	65106	5	21°331	9°723
64811	9	16°231	3°804	64885	12	7°991	5°344	64959*	21	15°396	6°270	65033	4	25°867	7°820	65107	4	21°457	9°429
64812	6	17°762	3°789	64886	6	8°195	5°796	64960	8	15°791	6°429	65034	5	0°221	8°473	65108	10	22°181	9°785
64813	7	18°152	3°372	64887	9	8°466	5°213	64961	4	16°383	6°273	65035*	19	0°934	8°125	65109	5	22°428	9°390
64814	15	19°368	3°045	64888	9	8°596	5°097	64962	5	16°842	6°142	65036	4	2°932	8°265	65110	5	22°612	9°827
64815	5	20°219	3°434	64889	12	9°098	5°688	64963	7	17°296	6°939	65037	12	3°185	8°838	65111	5	22°963	9°124
64816	5	20°323	3°390	64890	4	9°427	5°369	64964	4	17°312	6°569	65038*	20	3°918	8°760	65112*	64	22°977	9°907
64817	4	20°645	3°716	64891	6	10°411	5°821	64965	5	17°507	6°800	65039	11	5°304	8°297	65113	4	23°245	9°726
64818	5	20°733	3°272	64892	4	10°546	5°400	64966	4	17°752	6°148	65040	5	5°762	8°732	65114	11	0°095	10°007
64819	6	21°581	3°469	64893	5	10°659	5°296	64967	9	18°369	6°356	65041	10	5°924	8°861	65115	10	0°122	10°199
64820	20	24°350	3°081	64894	5	11°471	5°513	64968	4	19°224	6°862	65042	6	6°260	8°263	65116	7	0°393	10°644
64821*	18	24°472	3°669	64895	6	11°935	5°108	64969	7	19°442	6°166	65043	13	6°963	8°077	65117	9	1°275	10°093
64822	4	25°053	3°647	64896	9	12°228	5°046	64970	4	19°614	6°756	65044	8	8°256	8°283	65118	6	1°420	10°758
64823	15	25°205	3°087	64897	4	12°486	5°364	64971	4	20°422	6°931	65045	20	8°552	8°050	65119	8	2°230	10°279
64824	10	1°564	4°006	64898	4	13°175	5°030	64972	15	22°044	6°063	65046	15	8°964	8°906	65120	7	2°540	10°805
64825	6	1°908	4°041	64899	10	13°217	5°154	64973	5	22°279	6°357	65047	5	10°353	8°283	65121	5	3°613	10°325
64826	4	2°089	4°669	64900	7	13°501	5°147	64974	6	25°023	6°135	65048	8	12°855	8°660	65122	4	3°804	10°966
64827	5	2°531	4°364	64901	12	13°717	5°051	64975*	21	25°025	6°969	65049	7	12°964	8°871	65123	6	4°036	10°028
64828	5	3°081	4°488	64902	8	14°122	5°261	64976*	16	0°025	7°199	65050	14	13°012	8°901	65124	4	4°730	10°658
64829	12	4°615	4°898	64903	4	14°342	5°755	64977	4	0°105	7°692	65051*	28	14°581	8°825	65125	5	5°144	10°225
64830	9	4°966	4°197	64904	4	14°606	5°090	64978	5	0°177	7°667	65052	9	17°410	8°972	65126	4	5°203	10°581
64831	7	5°887	4°508	64905	5	15°844	5°600	64979	12	0°372	7°834	65053	9	18°305	8°186	65127	7	5°659	10°891
64832	9	6°177	4°634	64906	13	16°612	5°499	64980	4	0°586	7°883	65054	8	18°469	8°645	65128	5	5°886	10°376
64833	4	6°590	4°139	64907	6	17°418	5°839	64981	4	0°812	7°260	65055	7	18°504	8°889	65129	5	6°517	10°362
64834	5	7°343	4°673	64908	5	17°497	5°170	64982	8	1°315	7°469	65056	11	19°170	8°329	65130	4	6°905	10°270
64835	8	7°765	4°100	64909	4	18°537	5°794	64983	9	1°382	7°950	65057	10	19°198	8°660	65131	5	7°051	10°500
64836	5	8°723	4°931	64910	5	18°581	5°571	64984	10	1°395	7°356	65058	7	19°371	8°682	65132	9	7°803	10°484
64837*	25	9°035	4°005	64911	6	19°205	5°920	64985	8	1°843	7°542	65059	6	19°396	8°671	65133*	14	8°293	10°683
64838	5	9°611	4°023	64912*	16	19°579	5°037	64986	4	1°938	7°030	65060	13	19°491	8°068	65134	11	8°605	10°715
64839	7	10°332	4°463	64913	5	20°490	5°465	64987*	26	2°108	7°987	65061	6	20°126	8°785	65135	11	9°252	10°561
64840	10	10°565	4°632	64914	4	20°652	5°034	64988	7	2°727	7°478	65062	24	20°333	8°263	65136	11	9°360	10°513
64841	6	11°392	4°613	64915	6	21°606	5°299	64989	9	3°157	7°750	65063	4	22°737	8°978	65137	4	10°189	10°147
64842	9	11°861	4°238	64916	5	21°668	5°227	64990	6	3°328	7°318	65064	8	22°863	8°632	65138	11	10°289	10°732
64843	8	11°865	4°885	64917	4	21°683	5°482	64991	4	4°896	7°324	65065	9	24°604	8°539	65139	5	10°379	10°332
64844	13	13°218	4°442	64918	10	22°017	5°921	64992	7	5°137	7°253	65066	6	24°687	8°924	65140	9	10°659	10°659
64845	4	13°311	4°825	64919	11	22°217	5°221	64993	7	5°245	7°853	65067	16	25°212	8°250	65141	8	10°807	10°732
64846	4	14°124	4°686	64920*	15	22°461	5°668	64994	9	5°351	7°252	65068	8	25°400	8°048	65142	4	11°111	10°544
64847	5	14°589	4°692	64921	11	23°199	5°768	64995	6	5°593	7°419	65069	8	25°750	8°418	65143	12	11°465	10°071
64848	6	15°524	4°766	64922	6	23°873	5°963	64996	12	5°697	7°802	65070	5	0°034	9°809	65144	18	11°829	10°466
64849	5	15°630	4°524	64923	9	24°638	5°670	64997*	18	6°065	7°815	65071	12	1°006	9°760	65145	11	12°312	10°820
64850	4	15°801	4°493	64924	12	24°756	5°679	64998	10	6°235	7°561	65072	5	1°963	9°353	65146	9	12°654	10°642
64851	5	16°295	4°273	64925	5	25°196	5°976	64999	11	7°011	7°083	65073	7	2°323	9°496	65147	8	13°094	10°639
64852	9	16°534	4°842	64926	8	25°948	5°065	65000	30	7°085	7°660	65074	4	2°616	9°615	65148	6	13°542	10°762
64853	4	16°885	4°372	64927	11	0°250	6°225	65001	6	7°977	7°886	65075	4	3°493	9°515	65149	4	14°064	10°781
64854	6	17°629	4°796	64928	4	0°959	6°181	65002	5	8°489	7°788	65076	4	3°744	9°183	65150	7	14°356	10°303
64855	9	17°641	4°374	64929	5	1°934	6°832	65003	15	8°809	7°152	65077	12	4°047	9°888	65151	5	14°453	10°066
64856	6	17°766	4°298	64930	7	2°130	6°558	65004	5	9°493	7°928	65078	22	4°897	9°699	65152	10	15°115	10°793
64857	5	18°258	4°436	64931	7	2°225	6°168	65005*	18	10°689	7°662	65079	8	5°294	9°151	65153	5	16°935	10°725
64858*	19	19°087	4°295	64932*	39	2°294	6°265	65006	7	11°237	7°336	65080	6	5°694	9°943	65154	5	16°997	10°148
64859	9	19°176	4°478	64933	4	2°575	6°959	65007	7	11°626	7°855	65081	5	6°061	9°458	65155	7	18°005	10°146
64860	5	20°027	4°888	64934	12	3°606	6°656	65008	6	11°636	7°114	65082	5	7°722	9°544	65156	5	18°899	10°095
64861	10	20°314	4°673	64935	18	4°146	6°680	65009	4	11°912	7°991	65083	7	7°787	9°271	65157	5	19°242	10°468
64862	5	22°824	4°720	64936	7	4°237	6°996	65010	4	12°227	7°742	65084	10	8°163	9°091	65158	8	19°874	10°424
64863	11	22°918	4°095	64937	7	4°401	6°875	65011	13	12°747	7°847	65085	5	9°564	9°290	65159	9	20°039	10°164
64864	16	23°196	4°370	64938	13	4°624													

65170	8	24°11'4	10°6'60	65244	4	14°9'04	12°2'32	65318	7	10°0'55	14°2'42	65392*	17	1°8'36	16°6'15	65466	9	22°7'36	17°8'10
65171*	32	24°11'6	10°4'99	65245	5	15°0'45	12°8'11	65319	8	10°2'60	14°8'75	65393	8	2°6'95	16°3'37	65467	10	24°0'53	17°0'79
65172	4	25°4'58	10°1'65	65246	4	15°5'46	12°3'51	65320	9	11°6'00	14°6'96	65394	7	3°6'77	16°1'36	65468	11	25°0'41	17°7'93
65173	11	0°0'46	11°4'56	65247	6	15°7'78	12°4'99	65321*	17	12°0'55	14°0'21	65395	9	4°4'28	16°4'83	65469	4	25°2'44	17°4'58
65174	7	0°6'84	11°1'36	65248	5	17°2'31	12°3'26	65322	4	12°6'66	14°9'58	65396	17	4°9'19	16°5'81	65470	4	25°3'20	17°1'23
65175	5	1°2'20	11°1'76	65249	8	17°5'10	12°4'50	65323	8	12°9'65	14°3'19	65397	8	5°2'47	16°2'25	65471	10	0°9'96	18°2'48
65176	7	1°3'60	11°7'07	65250	10	18°1'04	12°5'07	65324	5	13°7'35	14°4'24	65398	13	5°3'34	16°8'28	65472	9	1°1'53	18°5'57
65177	5	1°5'19	11°5'56	65251	6	18°3'64	12°5'10	65325	4	13°7'70	14°0'82	65399	5	5°9'82	16°1'61	65473	11	1°2'96	18°4'79
65178	5	1°9'74	11°9'20	65252*	11	20°0'57	12°6'69	65326	7	13°9'66	14°8'12	65400	7	6°0'48	16°8'04	65474	5	1°9'55	18°1'54
65179	4	1°9'85	11°5'49	65253	4	21°3'53	12°0'29	65327	7	15°1'72	14°8'30	65401	5	6°2'97	16°0'57	65475	10	2°6'08	18°5'07
65180	11	2°2'52	11°5'54	65254	13	22°1'04	12°3'02	65328*	17	15°4'52	14°3'31	65402	6	6°3'04	16°0'32	65476	7	2°6'88	18°8'27
65181	10	2°2'75	11°3'40	65255*	24	22°3'80	12°9'17	65329*	12	16°1'44	14°5'67	65403	7	8°1'58	16°8'73	65477	4	2°7'97	18°8'45
65182	15	2°9'75	11°3'97	65256	6	22°4'26	12°2'62	65330	4	17°3'94	14°7'20	65404	10	8°7'08	16°8'67	65478	4	5°9'25	18°7'72
65183	8	3°1'06	11°0'15	65257	4	23°7'75	12°8'65	65331	5	17°8'01	14°7'45	65405	6	9°5'28	16°5'94	65479	5	6°6'83	18°2'60
65184	4	3°2'84	11°1'38	65258	10	23°8'94	12°5'91	65332	14	17°9'36	14°7'37	65406	10	10°3'67	16°2'87	65480	5	7°0'83	18°6'47
65185	9	3°6'22	11°8'91	65259*	23	24°4'31	12°0'99	65333	8	18°1'86	14°0'21	65407	17	10°8'35	16°4'55	65481*	37	7°4'02	18°1'83
65186	6	4°0'66	11°9'61	65260	4	24°6'98	12°8'14	65334	6	18°6'39	14°6'34	65408	7	12°0'04	16°4'78	65482	6	7°8'06	18°2'58
65187	10	4°7'89	11°4'18	65261	6	24°8'56	12°9'82	65335	7	21°4'73	14°5'61	65409	5	12°5'08	16°0'43	65483	8	7°9'26	18°1'26
65188	19	4°9'24	11°5'30	65262	5	25°4'54	12°5'70	65336	4	21°5'26	14°6'12	65410	9	13°2'87	16°8'29	65484	10	8°2'37	18°9'35
65189	6	5°2'96	11°8'30	65263	5	0°5'29	13°2'64	65337	9	21°7'63	14°1'08	65411	4	14°3'96	16°5'79	65485	9	8°4'00	18°1'10
65190	5	6°2'03	11°1'15	65264	6	0°8'02	13°5'09	65338	4	21°8'63	14°1'86	65412*	21	15°1'18	16°7'94	65486	7	8°8'02	18°0'36
65191	10	7°5'38	11°8'24	65265	7	1°1'03	13°4'90	65339	4	22°7'07	14°2'05	65413	4	15°7'05	16°8'98	65487	4	8°8'42	18°2'06
65192	9	8°2'32	11°8'24	65266	9	1°2'79	13°9'41	65340	4	22°7'87	14°8'06	65414	6	15°8'76	16°0'65	65488	8	9°6'14	18°8'25
65193	11	8°7'82	11°5'97	65267	6	2°1'38	13°0'02	65341	9	22°8'05	14°3'70	65415*	24	16°3'74	16°2'26	65489	4	10°1'67	18°6'37
65194	4	9°8'99	11°4'80	65268	4	2°1'57	13°2'85	65342	10	23°5'87	14°2'89	65416	9	16°3'79	16°9'86	65490	10	10°7'53	18°3'99
65195	5	10°3'00	11°1'12	65269	5	2°7'49	13°5'21	65343	11	24°4'41	14°2'18	65417	8	16°6'94	16°6'67	65491	13	11°5'73	18°2'61
65196	14	11°2'30	11°0'28	65270	4	2°7'54	13°5'23	65344	7	25°9'01	14°8'36	65418	7	16°8'75	16°9'50	65492*	15	12°2'44	18°9'29
65197	5	11°7'86	11°8'76	65271	6	2°9'82	13°8'72	65345	4	0°1'66	15°1'47	65419	13	17°2'01	16°0'72	65493	12	12°4'72	18°3'70
65198*	34	12°4'07	11°4'76	65272	4	3°1'36	13°7'82	65346	5	0°5'03	15°5'22	65420	9	17°2'15	16°1'97	65494	8	12°5'36	18°5'04
65199	6	12°5'79	11°2'28	65273	12	3°2'90	13°3'38	65347	9	1°1'03	15°3'57	65421	10	18°9'05	16°7'69	65495	5	13°3'99	18°3'55
65200	5	13°7'56	11°7'89	65274	5	3°3'18	13°3'02	65348	4	1°1'54	15°1'47	65422	7	19°4'12	16°4'48	65496	7	14°3'66	18°4'01
65201	11	14°1'32	11°4'72	65275	12	3°9'68	13°9'98	65349	12	1°2'76	15°5'79	65423	4	21°5'66	16°4'10	65497	5	14°4'56	18°7'65
65202	8	15°0'71	11°0'56	65276	11	5°7'00	13°0'83	65350	11	1°3'10	15°1'61	65424	10	21°6'90	16°2'02	65498	6	14°6'65	18°7'16
65203*	27	15°3'06	11°7'36	65277	14	5°9'69	13°5'84	65351	10	1°3'95	15°4'22	65425	5	22°8'16	16°1'59	65499	13	14°9'25	18°2'60
65204	5	16°0'50	11°9'22	65278	7	6°4'73	13°9'99	65352	4	1°5'08	15°7'09	65426	6	23°1'04	16°1'31	65500	4	16°8'81	18°7'24
65205*	24	16°5'14	11°6'07	65279	5	7°2'23	13°4'64	65353	8	1°5'22	15°3'48	65427	13	24°4'56	16°6'95	65501	16	18°2'83	18°8'33
65206	4	17°1'19	11°4'35	65280	7	7°8'74	13°7'75	65354	10	3°3'84	15°3'76	65428	4	25°0'77	16°9'68	65502	9	18°5'09	18°5'49
65207	5	17°2'24	11°0'57	65281	5	8°1'77	13°8'08	65355	9	3°3'97	15°4'42	65429	10	25°4'56	16°3'50	65503	6	19°5'76	18°0'10
65208	6	17°4'32	11°5'70	65282*	16	8°2'85	13°9'02	65356	15	3°5'73	15°9'40	65430	14	1°9'50	17°4'32	65504	7	19°9'95	18°6'24
65209	4	18°6'40	11°8'99	65283	13	10°3'53	13°0'32	65357	6	3°5'76	15°0'84	65431	18	2°0'18	17°9'82	65505	5	20°5'87	18°2'55
65210	14	18°7'95	11°1'48	65284	5	10°6'41	13°8'60	65358	7	3°5'97	15°1'24	65432	12	3°1'66	17°2'43	65506	7	20°7'38	18°0'19
65211	13	19°5'98	11°4'05	65285	10	11°7'32	13°3'39	65359	13	3°8'22	15°8'96	65433	7	3°3'57	17°8'78	65507	10	22°2'90	18°4'57
65212	7	21°2'37	11°8'47	65286	4	12°4'55	13°8'75	65360	7	4°4'03	15°5'69	65434*	25	3°6'32	17°5'87	65508	4	23°0'14	18°3'88
65213	5	21°5'09	11°7'27	65287	4	15°4'20	13°1'00	65361	7	4°6'83	15°0'27	65435*	20	3°6'71	17°6'57	65509	5	23°5'85	18°9'48
65214	7	22°6'76	11°5'45	65288	5	15°6'20	13°7'08	65362	7	5°4'70	15°5'61	65436*	16	3°8'95	17°9'77	65510	7	23°7'48	18°6'75
65215	6	23°7'88	11°2'39	65289	4	16°6'42	13°6'62	65363	4	6°2'79	15°2'86	65437*	22	3°9'88	17°5'88	65511	5	24°1'26	18°0'85
65216	5	25°2'54	11°1'25	65290	7	16°6'60	13°7'62	65364	13	6°7'69	15°2'07	65438	5	4°2'79	17°9'55	65512	12	24°9'80	18°8'10
65217*	23	25°5'67	11°8'91	65291	10	17°4'17	13°3'16	65365	5	7°2'27	15°9'65	65439*	16	6°1'20	17°4'18	65513	10	25°2'59	18°6'27
65218*	14	0°3'77	12°3'93	65292	5	18°2'26	13°8'22	65366*	23	7°5'36	15°6'34	65440	13	6°4'41	17°5'52	65514	6	0°0'47	19°4'41
65219	6	0°6'95	12°1'50	65293	9	19°2'96	13°1'15	65367	4	7°5'80	15°7'39	65441	9	6°5'56	17°2'53	65515	5	1°8'05	19°2'42
65220	11	0°9'52	12°4'71	65294	7	19°3'00	13°0'13	65368	5	7°7'52	15°5'72	65442	7	6°6'33	17°7'54	65516	13	2°2'32	19°9'53
65221	7	2°6'69	12°5'73	65295	7	20°1'44	13°7'89	65369	5	8°4'61	15°7'85	65443	13	8°7'59	17°0'98	65517	12	3°2'14	19°5'02
65222	4	2°9'59	12°3'75	65296	12	21°3'29	13°4'51	65370	4	8°5'67	15°3'54	65444	6	9°9'10	17°9'08	65518	4	3°2'20	19°2'16
65223	4	3°0'48	12°9'76	65297*	18	21°7'00	13°1'77	65371	17	8°8'88	15°0'13	65445	9	10°6'53	17°7'03	65519	6	4°4'49	19°7'27
65224	5	3°6'85	12°7'72	65298*	19	22°6'81	13°0'90	65372	4	9°4'19	15°4'99	65446	5	10°7'44	17°1'75	65520	5	5°0'14	19°6'15
65225	6	4°0'36	12°7'31	65299	14	23°4'90	13°0'12	65373	8	9°4'73	15°5'26	65447	10	11°1'95	17°8'05	65521	11	5°4'90	19°7'94
65226	14	5°5'95	12°3'98	65300	9	24°5'10	13°9'57	65374	4	10°0'92	15°5'00	65448	4	11°5'57	17°9'24	65522	12	5°5'64	19°0'99
65227	6	5°9'21	12°4'54	65301	7	24°9'08	13°0'14	65375	9	10°9'14	15°0'56	65449*	18	11°8'55	17°8'19	65523	5	6°8'25	19°4'06
65228	5	6°1'25	12°7'04	65302	11	25°8'32	13°4'51	65376	8	13°3'58	15°5'52	65450	8	12°4'53	17°6'50	65524	7	7°1'20	19°6'74
65229	6	6°2'61	12°9'54	65303	6	0°3'36	14°6'66	65377	7	15°6'89	15°1'91	65451	7	13°2'09	17°5'41	65525	11		

65540	8	16°346	19°690	65614	6	5°522	21°281	65688	4	5°235	23°087	65762	12	22°849	24°268
65541	4	16°651	19°110	65615	6	6°166	21°070	65689	5	6°202	23°223	65763	17	23°109	24°929
65542	11	17°211	19°679	65616	6	7°336	21°225	65690	10	8°350	23°581	65764	6	24°867	24°376
65543	5	18°248	19°805	65617	16	8°024	21°497	65691	6	8°841	23°595	65765*	13	25°188	24°394
65544	7	18°897	19°418	65618	5	8°206	21°072	65692	4	8°955	23°289	65766	5	25°928	24°199
65545	5	19°032	19°681	65619	5	8°407	21°271	65693	11	9°643	23°478	65767	12	0°314	25°005
65546	5	19°519	19°887	65620	10	10°057	21°754	65694	13	9°886	23°960	65768	6	1°085	25°410
65547*	25	19°907	19°014	65621	4	10°148	21°284	65695	9	9°919	23°996	65769	6	2°184	25°577
65548	7	20°518	19°386	65622	15	10°418	21°870	65696	9	10°552	23°143	65770	11	2°233	25°279
65549	5	20°643	19°998	65623	8	13°255	21°792	65697	7	10°672	23°523	65771	4	2°308	25°032
65550	7	20°748	19°102	65624	7	13°294	21°996	65698	4	11°474	23°103	65772	13	3°031	25°093
65551	6	21°506	19°090	65625	12	13°746	21°549	65699*	33	12°255	23°926	65773*	13	3°856	25°771
65552*	20	21°741	19°141	65626	5	15°367	21°672	65700	5	12°917	23°096	65774	5	4°070	25°340
65553	9	21°797	19°793	65627	4	15°588	21°659	65701	10	13°470	23°411	65775	4	4°365	25°205
65554*	20	22°306	19°901	65628	10	16°376	21°776	65702	7	13°625	23°117	65776	4	5°950	25°656
65555	5	22°784	19°735	65629	6	16°645	21°634	65703	4	14°269	23°701	65777	11	5°997	25°250
65556	11	23°603	19°645	65630	13	16°830	21°384	65704	7	15°129	23°663	65778	10	7°633	25°254
65557	4	23°762	19°943	65631	4	17°470	21°232	65705	5	15°226	23°696	65779	12	7°641	25°077
65558	4	24°091	19°372	65632	4	18°104	21°062	65706	10	15°740	23°679	65780	6	7°839	25°144
65559	10	0°962	20°097	65633	5	18°681	21°755	65707*	20	16°731	23°535	65781	12	8°066	25°149
65560	14	5°281	20°832	65634	12	19°590	21°515	65708	7	17°409	23°423	65782*	24	8°189	25°372
65561	4	5°530	20°716	65635	7	20°641	21°531	65709	16	17°835	23°609	65783	11	8°943	25°349
65562	4	5°907	20°562	65636	5	20°979	21°905	65710	9	18°082	23°654	65784	9	9°945	25°484
65563	6	6°127	20°777	65637	12	21°088	21°777	65711	4	18°114	23°038	65785	11	10°395	25°630
65564	6	6°155	20°145	65638	11	23°837	21°019	65712	9	18°156	23°005	65786	5	10°798	25°748
65565	7	6°531	20°657	65639	4	24°138	21°984	65713	4	18°274	23°691	65787	10	11°157	25°376
65566	10	7°195	20°811	65640	5	24°469	21°668	65714	9	18°532	23°884	65788	6	11°268	25°708
65567	5	7°247	20°116	65641	4	24°709	21°301	65715	21	19°136	23°920	65789	7	12°038	25°336
65568	7	7°765	20°078	65642	5	24°994	21°265	65716	5	19°695	23°405	65790	5	12°294	25°662
65569	4	8°290	20°756	65643	4	25°110	21°218	65717	12	21°366	23°458	65791	5	13°545	25°179
65570	7	9°029	20°317	65644	10	25°583	21°328	65718	8	21°994	23°035	65792	6	13°728	25°603
65571	6	11°200	20°360	65645	5	1°306	22°709	65719	4	23°730	23°629	65793	13	15°117	25°493
65572	4	11°301	20°644	65646	7	1°722	22°867	65720	5	24°001	23°240	65794*	21	15°251	25°427
65573	5	11°692	20°378	65647	4	1°762	22°439	65721	12	24°971	23°698	65795	5	15°387	25°378
65574	9	12°183	20°356	65648	6	2°568	22°256	65722	12	25°229	23°392	65796	6	15°831	25°691
65575	4	12°487	20°342	65649	5	4°760	22°250	65723	19	25°578	23°026	65797*	23	16°320	25°646
65576	10	12°644	20°975	65650	6	5°091	22°978	65724	5	25°869	23°229	65798	5	16°634	25°230
65577	5	12°668	20°467	65651	10	7°185	22°886	65725	8	0°052	24°176	65799	7	16°686	25°327
65578	4	12°771	20°651	65652	12	8°136	22°856	65726	5	0°112	24°205	65800	7	16°774	25°040
65579	14	13°245	20°541	65653	9	9°369	22°496	65727	7	0°149	24°950	65801	10	16°815	25°574
65580	5	13°675	20°876	65654	7	9°464	22°317	65728	5	0°703	24°402	65802	6	17°269	25°166
65581	5	14°041	20°358	65655	6	9°687	22°363	65729	5	1°081	24°677	65803	5	17°449	25°099
65582	10	15°330	20°116	65656	5	12°235	22°415	65730*	14	3°775	24°756	65804	13	17°790	25°823
65583	18	15°505	20°340	65657	7	12°455	22°242	65731	4	4°184	24°032	65805	4	17°834	25°908
65584	5	15°760	20°844	65658	11	12°456	22°348	65732	15	4°864	24°940	65806	4	18°301	25°219
65585	5	15°884	20°737	65659	10	12°692	22°844	65733*	22	4°926	24°467	65807	11	18°302	25°591
65586	7	16°355	20°069	65660	5	13°585	22°234	65734*	17	5°207	24°839	65808	13	19°146	25°521
65587	8	16°857	20°652	65661	6	14°006	22°151	65735	5	6°991	24°592	65809	10	19°385	25°907
65588	10	17°204	20°275	65662	5	14°007	22°036	65736	5	7°658	24°520	65810	6	20°112	25°086
65589	7	17°791	20°485	65663	6	14°326	22°128	65737*	29	7°709	24°044	65811	6	20°585	25°934
65590	6	18°108	20°990	65664*	16	15°147	22°362	65738*	39	7°854	24°292	65812	5	22°202	25°444
65591	16	18°215	20°236	65665	9	15°206	22°887	65739	11	8°191	24°788	65813	7	23°856	25°853
65592	8	18°347	20°368	65666	6	15°336	22°036	65740	5	8°274	24°734	65814*	16	24°525	25°734
65593	7	18°564	20°314	65667	5	15°549	22°602	65741	10	8°503	24°318	65815	38	25°865	25°999
65594	9	19°759	20°041	65668	20	17°291	22°591	65742	4	8°882	24°480				
65595	6	19°786	20°435	65669	12	17°476	22°324	65743	4	9°150	24°534				
65596	9	20°280	20°918	65670	5	17°478	22°119	65744	12	10°973	24°279				
65597	8	20°424	20°314	65671	9	18°022	22°372	65745	4	11°349	24°351				
65598	7	20°555	20°109	65672	11	18°190	22°125	65746	11	11°606	24°955				
65599	5	21°199	20°556	65673	5	18°588	22°698	65747	13	11°626	24°560				
65600	4	22°386	20°460	65674*	18	20°385	22°753	65748	13	11°706	24°758				
65601	14	22°500	20°601	65675	12	20°520	22°691	65749	5	12°440	24°832				
65602	11	24°135	20°875	65676	4	21°301	22°848	65750	11	12°959	24°866				
65603	5	24°554	20°839	65677	4	21°319	22°685	65751	5	13°506	24°411				
65604	5	25°523	20°806	65678	7	22°542	22°337	65752	6	13°591	24°848				
65605	7	0°847	21°167	65679	9	24°152	22°801	65753	4	17°229	24°406				
65606	12	0°896	21°717	65680	8	24°207	22°783	65754	10	17°473	24°099				
65607	8	1°706	21°653	65681	4	24°285	22°840	65755	6	17°867	24°001				
65608	7	2°115	21°243	65682	6	1°075	23°060	65756	12	18°777	24°893				
65609	4	2°357	21°910	65683	14	2°084	23°169	65757	8	19°037	24°937				
65610	9	2°776	21°902	65684	12	2°820	23°177	65758	9	19°043	24°227				
65611	7	3°345	21°369	65685	7	3°037	23°889	65759	5	19°835	24°713				
65612	5	3°400	21°464	65686	9	3°734	23°247	65760	8	21°882	24°705				
65613	7	3°745	21°316	65687	6	4°375	23°033	65761	7	21°888	24°529				

R. A. 21^h 36^m

Plate 2564 ; 1907 July 16.

Provisional Constants.

A	B	C
-00026	+00454	+2411

D	E	F
-00460	-00058	-2727

Mag. = 15.3 - 1.25√d

No.	d	x	y
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65903	9	5°253	0°619
65904	5	5°729	0°570
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65906	6	7°650	0°910
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65910	4	12°421	0°665
65911	13	12°467	0°572
65912	24	12°799	0°018
65913	4	13°392	0°555
65914	8	13°698	0°951
65915	19	13°925	0°547
65916	11	14°160	0°184
65917	10	14°544	0°363
65918	4	16°400	0°219
65919	15	16°630	0°081
65920	7	17°924	0°067
65921	11	22°745	0°274
65922	5	22°950	0°900
65923	8	23°976	0°481
65924*	16	24°537	0°643
65925	7	0°439	1°731
65926*	22	0°725	1°053
65927	11	0°831	1°467
65928	9	2°862	1°376
65929	6	4°147	1°349
65930	12	5°514	1°270
65931*	16	8°190	1°800
65932	4	13°509	1°570
65933	12	13°724	1°656
65934	11	13°838	1°079
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65936	7	15°675	1°041
65937	10	20°173	1°812
65938	16	20°770	1°188
65939	4	21°219	1°693
65940	13	21°243	1°577
65941	10	23°313	1°532
65942	11	25°069	1°925
65943	19	0°971	2°969
65944*	16	1°706	2°697
65945	5	1°812	2°546
65946	14	1°827	2°961
65947	7	4°779	2°195
65948	17	5°417	2°697
65949	5	6°326	2°753
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65951	6	7°811	2°883
65952	15	7°918	2°554
65953	8	8°790	2°112
65954	4	9°115	2°844
65955	10	10°715	2°697
65956	7	11°717	2°655

65957	19	12.375	2.314	66031	12	15.115	5.239	66105	6	7.575	8.323	66179	13	0.284	12.912	66253	6	2.307	16.213
65958	5	14.429	2.556	66032*	24	15.563	5.962	66106	10	7.698	8.416	66180	6	0.677	12.486	66254	8	7.166	16.200
65959	7	15.380	2.593	66033	11	16.184	5.026	66107	4	9.130	8.428	66181	5	1.698	12.889	66255	9	7.432	16.422
65960	8	17.096	2.812	66034	9	16.672	5.814	66108	8	9.432	8.886	66182	6	5.724	12.771	66256	8	10.221	16.855
65961	9	17.325	2.096	66035	5	16.753	5.185	66109	19	11.911	8.677	66183	5	9.175	12.729	66257	4	12.067	16.757
65962	4	17.652	2.821	66036	5	17.526	5.466	66110	4	12.921	8.731	66184*	12	9.479	12.566	66258	7	12.284	16.184
65963	7	18.605	2.478	66037	17	19.588	5.753	66111*	22	14.510	8.029	66185	6	9.494	12.582	66259	10	13.977	16.975
65964	11	19.380	2.226	66038	12	20.405	5.058	66112	7	15.853	8.382	66186	8	12.022	12.027	66260*	51	14.058	16.262
65965	8	19.685	2.395	66039	10	21.738	5.520	66113	15	16.156	8.605	66187	12	14.487	12.764	66261	12	17.272	16.858
65966	19	19.747	2.840	66040*	40	22.404	5.314	66114	5	17.721	8.539	66188	13	15.739	12.266	66262	6	17.422	16.141
65967	14	20.504	2.669	66041	7	22.506	5.786	66115*	18	21.117	8.084	66189	11	17.010	12.607	66263	7	20.901	16.590
65968	9	20.553	2.539	66042	19	22.648	5.615	66116	7	21.261	8.755	66190	12	17.647	12.424	66264	6	22.541	16.694
65969	10	21.251	2.071	66043	10	24.513	5.247	66117	6	22.365	8.087	66191*	24	18.084	12.213	66265*	78	23.016	16.132
65970	12	22.080	2.577	66044	12	24.979	5.778	66118	10	24.018	8.982	66192	5	18.599	12.985	66266*	49	23.569	16.537
65971	13	22.734	2.225	66045	8	25.125	5.740	66119	15	3.195	9.512	66193	9	20.668	12.906	66267	7	23.646	16.829
65972*	16	1.103	3.554	66046*	20	1.711	6.844	66120	7	4.857	9.749	66194	9	21.281	12.618	66268	6	24.619	16.089
65973	12	5.902	3.471	66047*	30	3.857	6.649	66121	6	7.051	9.324	66195	4	22.392	12.925	66269	16	24.625	16.196
65974	9	6.596	3.630	66048*	7	5.622	6.167	66122	12	7.962	9.423	66196	5	23.486	12.044	66270	19	25.064	16.375
65975*	38	8.117	3.549	66049*	28	7.483	6.264	66123	13	10.602	9.026	66197*	18	23.550	12.682	66271	11	25.226	16.264
65976	13	8.163	3.916	66050	16	8.855	6.737	66124	11	10.887	9.469	66198	12	23.609	12.779	66272	10	25.670	16.109
65977	9	8.981	3.936	66051	9	8.949	6.396	66125*	26	12.116	9.719	66199	11	25.594	12.041	66273	9	25.712	16.667
65978	17	9.425	3.195	66052	7	10.050	6.377	66126	7	16.159	9.458	66200*	27	25.663	12.345	66274	11	1.916	17.664
65979	10	11.554	3.508	66053	5	10.391	6.573	66127	8	16.242	9.153	66201	8	1.320	13.840	66275	6	3.888	17.210
65980	4	13.974	3.096	66054	5	10.817	6.630	66128	7	17.032	9.789	66202	10	2.632	13.313	66276*	20	4.692	17.299
65981	13	14.041	3.521	66055	6	11.232	6.779	66129	11	17.709	9.246	66203	7	4.695	13.954	66277	4	5.433	17.974
65982	10	14.804	3.205	66056	12	11.571	6.340	66130	10	17.980	9.418	66204	7	5.911	13.678	66278	11	8.094	17.707
65983	14	15.467	3.012	66057	8	12.213	6.238	66131	13	17.988	9.664	66205	4	8.506	13.864	66279	10	9.885	17.366
65984	9	17.874	3.657	66058	6	12.534	6.872	66132	9	18.994	9.229	66206	10	8.520	13.924	66280	11	12.072	17.133
65985	10	18.461	3.671	66059	5	12.916	6.059	66133	6	20.081	9.892	66207	5	8.530	13.197	66281*	18	12.143	17.256
65986	15	19.412	3.303	66060	5	13.449	6.700	66134	12	21.863	9.086	66208	9	10.799	13.705	66282	5	12.407	17.204
65987	12	20.321	3.319	66061	7	14.980	6.421	66135	11	22.366	9.017	66209	5	11.515	13.147	66283	14	12.506	17.362
65988	7	22.885	3.598	66062	13	15.260	6.409	66136	5	22.465	9.416	66210	6	11.839	13.301	66284	5	17.048	17.263
65989*	21	23.913	3.453	66063*	11	15.486	6.808	66137	10	23.169	9.757	66211	9	15.016	13.525	66285	13	18.612	17.122
65990	9	24.547	3.858	66064	7	16.123	6.804	66138	11	23.467	9.016	66212	9	19.074	13.771	66286	6	21.414	17.473
65991	11	24.886	3.689	66065	5	16.256	6.779	66139	5	23.569	9.519	66213	5	21.353	13.857	66287	7	22.245	17.179
65992	4	25.467	3.098	66066	12	16.362	6.451	66140	5	24.385	9.628	66214	10	22.892	13.536	66288	5	22.829	17.822
65993	5	2.608	4.926	66067*	14	16.922	6.840	66141	5	24.404	9.720	66215*	16	23.721	13.784	66289	18	23.742	17.149
65994	11	2.936	4.643	66068*	19	17.280	6.095	66142	10	24.595	9.689	66216	6	24.911	13.911	66290	12	1.874	18.682
65995	13	4.761	4.870	66069	13	20.861	6.685	66143*	27	0.864	10.389	66217	10	25.585	13.780	66291	8	2.151	18.497
65996	15	6.630	4.007	66070	4	21.034	6.166	66144	6	0.866	10.550	66218	5	25.933	13.371	66292*	19	2.915	18.041
65997	12	7.325	4.253	66071	10	21.296	6.618	66145*	12	4.641	10.726	66219	6	0.402	14.187	66293	6	4.486	18.444
65998	14	7.931	4.125	66072*	27	22.254	6.655	66146	11	5.140	10.057	66220	9	1.255	14.103	66294*	13	5.371	18.790
65999	4	9.182	4.531	66073	14	22.973	6.317	66147	8	7.468	10.354	66221	9	2.841	14.582	66295	5	5.416	18.707
66000	12	9.771	4.928	66074	4	23.585	6.168	66148*	13	8.476	10.622	66222	8	3.072	14.019	66296	5	6.334	18.382
66001	5	10.873	4.317	66075	16	24.788	6.236	66149	11	9.542	10.169	66223	13	4.013	14.041	66297	4	6.437	18.509
66002*	14	12.316	4.934	66076	6	24.997	6.683	66150	11	9.786	10.337	66224	9	5.065	14.465	66298	11	7.342	18.876
66003	5	12.412	4.831	66077	12	1.868	7.394	66151	10	10.906	10.174	66225	7	6.250	14.100	66299*	21	7.474	18.589
66004	8	13.949	4.746	66078	21	2.863	7.266	66152	13	13.489	10.732	66226	23	6.371	14.272	66300	5	9.547	18.606
66005	11	14.298	4.919	66079	14	3.412	7.448	66153	5	13.992	10.750	66227	4	6.743	14.434	66301	5	9.695	18.194
66006	13	15.326	4.554	66080	10	3.513	7.022	66154	9	17.546	10.027	66228	5	7.489	14.754	66302	10	9.735	18.497
66007	4	16.809	4.026	66081	18	3.730	7.449	66155	5	19.383	10.056	66229	10	10.768	14.676	66303	6	9.956	18.332
66008	7	17.131	4.185	66082*	17	5.330	7.425	66156	8	19.897	10.991	66230	7	15.254	14.326	66304	5	10.106	18.694
66009	8	17.475	4.167	66083	9	5.638	7.737	66157	9	22.773	10.392	66231	16	15.324	14.838	66305*	13	10.759	18.258
66010	6	19.521	4.168	66084*	23	5.749	7.081	66158	9	24.605	10.659	66232	5	16.219	14.544	66306	18	10.825	18.457
66011*	20	19.620	4.569	66085	9	7.810	7.644	66159	10	25.069	10.183	66233	7	17.914	14.312	66307	14	11.939	18.646
66012	4	23.363	4.046	66086	12	8.543	7.457	66160*	20	1.207	11.983	66234	10	19.722	14.089	66308	4	14.773	18.795
66013	11	23.776	4.353	66087	10	12.344	7.346	66161*	21	2.338	11.756	66235	10	20.251	14.820	66309	12	14.852	18.017
66014*	18	24.860	4.781	66088	7	12.926	7.390	66162	11	3.407	11.898	66236	5	24.720	14.839	66310	7	16.681	18.765
66015	10	25.440	4.579	66089	10	13.664	7.947	66163	12	5.471	11.521	66237	10	2.993	15.224	66311	5	17.416	18.513
66016	5	1.302	5.552	66090	6	15.329	7.655	66164*	28	13.127	11.565	66238	11	3.561	15.344	66312	8	18.464	18.925
66017	9	1.423	5.561	66091	7	16.046	7.366	66165*	17	13.133	11.404	66239	5	4.327	15.612	66313	7	18.781	18.413
66018	11	3.364	5.229	66092	9	17.839	7.458	66166	6	16.706	11.694	66240	10	6.402	15.554	66314	8	21.772	18.951
66019	6	3.862	5.224	66093	5	18.293	7.294	66167	11	16.981	11.613	66241	13	10.436	15.749	66315	8	22.066	18.295
66020	5	5.773	5.588	66094	9	19.20													

66327	7	15°281	19°716	66401	7	5°466	22°073	66475	6	18°690	24°525	66614	13	19°688	0°157	66688	7	18°908	3°294
66328	9	16°548	19°037	66402	5	6°759	22°769	66476	12	20°772	24°391	66615	4	20°481	0°974	66689	19	19°981	3°059
66329	8	16°891	19°406	66403	12	7°178	22°761	66477	14	20°958	24°063	66616	4	21°814	0°745	66690	10	20°374	3°886
66330	12	17°122	19°457	66404	6	8°080	22°664	66478*	34	21°837	24°154	66617	9	21°979	0°809	66691	6	0°543	4°022
66331	7	18°173	19°191	66405*	32	8°130	22°046	66479	13	22°261	24°321	66618	10	22°966	0°478	66692*	20	0°876	4°942
66332	11	23°239	19°879	66406	9	9°445	22°552	66480	8	22°928	24°789	66619	5	23°001	0°089	66693	10	1°450	4°726
66333	6	23°652	19°627	66407	8	9°893	22°141	66481	21	23°237	24°303	66620	4	23°014	0°889	66694	13	2°353	4°264
66334	5	23°670	19°798	66408*	20	10°374	22°074	66482	8	23°390	24°206	66621	18	24°265	0°708	66695	14	3°297	4°654
66335	10	25°850	19°837	66409	12	10°514	22°981	66483	5	23°996	24°580	66622	16	2°628	1°674	66696	13	4°142	4°081
66336	9	0°769	20°912	66410	6	10°809	22°190	66484*	14	1°538	25°613	66623	13	5°534	1°255	66697	5	4°839	4°530
66337	10	1°065	20°761	66411	6	11°520	22°383	66485	39	2°883	25°852	66624	11	6°658	1°694	66698*	41	5°321	4°733
66338	8	5°118	20°707	66412	11	11°694	22°092	66486	9	3°905	25°899	66625	12	6°756	1°859	66699	9	6°079	4°981
66339	5	7°780	20°046	66413	16	12°089	22°777	66487	10	5°146	25°627	66626	5	8°529	1°021	66700	18	6°331	4°812
66340	5	7°941	20°682	66414	10	12°096	22°835	66488	11	6°063	25°385	66627	5	11°784	1°664	66701	13	9°381	4°217
66341	7	8°829	20°828	66415	13	12°921	22°431	66489	6	6°716	25°003	66628	4	11°925	1°444	66702	8	10°533	4°042
66342	10	9°838	20°194	66416*	12	13°876	22°261	66490	15	9°275	25°914	66629	10	12°669	1°557	66703	4	12°073	4°136
66343	6	10°277	20°163	66417	5	15°179	22°187	66491	6	11°627	25°784	66630	14	13°411	1°109	66704	5	13°192	4°857
66344	13	10°289	20°834	66418	9	16°931	22°136	66492	13	11°691	25°796	66631	22	13°843	1°054	66705	8	13°263	4°619
66345	11	11°838	20°321	66419	11	17°160	22°623	66493	17	11°914	25°101	66632*	20	15°916	1°141	66706	11	13°434	4°152
66346	13	12°071	20°884	66420	7	17°268	22°974	66494	15	11°923	25°090	66633	9	16°738	1°069	66707	8	15°016	4°201
66347	12	13°074	20°103	66421	12	18°110	22°269	66495	6	12°239	25°977	66634	9	18°503	1°191	66708	10	17°793	4°472
66348	8	13°431	20°356	66422	7	19°747	22°223	66496	13	12°374	25°491	66635	10	18°521	1°469	66709	11	17°948	4°237
66349	9	13°693	20°096	66423	5	19°858	22°264	66497	8	13°649	25°220	66636	8	20°101	1°447	66710	4	19°417	4°902
66350	9	14°762	20°404	66424	6	20°264	22°961	66498	16	13°688	25°800	66637	4	21°631	1°299	66711*	38	20°316	4°625
66351	15	15°141	20°697	66425	9	20°515	22°606	66499	8	14°109	25°445	66638*	30	22°326	1°565	66712	8	22°304	4°936
66352	10	15°274	20°835	66426	5	21°872	22°545	66500	12	15°294	25°815	66639*	23	22°994	1°735	66713	11	22°609	4°919
66353	9	16°015	20°337	66427	9	21°937	22°194	66501*	19	15°763	25°257	66640	4	24°375	1°358	66714	5	22°676	4°617
66354	9	16°622	20°702	66428	13	22°419	22°331	66502	4	16°538	25°981	66641	18	25°604	1°552	66715*	19	24°150	4°059
66355	8	16°713	20°567	66429	6	22°625	22°476	66503	5	17°567	25°626	66642	11	1°025	2°078	66716	13	24°260	4°450
66356	4	16°766	20°350	66430	14	23°598	22°032	66504	6	17°679	25°382	66643	10	2°851	2°781	66717	5	24°099	4°544
66357	5	17°104	20°797	66431*	40	23°777	22°350	66505	10	18°838	25°007	66644	14	3°955	2°445	66718	8	0°537	5°412
66358	6	17°632	20°331	66432	4	25°020	22°914	66506	6	19°840	25°042	66645*	33	6°534	2°987	66719	12	1°015	5°934
66359	9	17°931	20°568	66433	14	25°083	22°868	66507	5	20°715	25°854	66646	11	7°596	2°398	66720	6	1°161	5°894
66360*	14	17°943	20°467	66434	8	25°507	22°067	66508	5	24°084	25°880	66647	7	7°742	2°683	66721*	25	2°119	5°832
66361	8	18°296	20°081	66435*	31	25°818	22°002	66509	9	24°244	25°144	66648	12	8°231	2°320	66722	6	3°040	5°769
66362	4	18°518	20°192	66436	9	1°952	23°568	66510	23	25°429	25°877	66649	15	9°240	2°168	66723	7	3°793	5°390
66363	7	19°361	20°842	66437	10	2°204	23°259	66511	9	25°710	25°644	66650*	23	9°777	2°623	66724	8	4°096	5°294
66364	10	19°471	20°574	66438	7	3°437	23°278	66512	7	25°771	25°750	66651	4	10°265	2°984	66725	7	5°489	5°822
66365	13	19°476	20°671	66439	13	3°799	23°300					66652	7	10°895	2°801	66726	12	6°202	5°681
66366	11	20°341	20°037	66440	11	5°634	23°413					66653*	13	10°900	2°111	66727	13	6°439	5°804
66367	11	20°583	20°312	66441	5	8°515	23°312					66654	7	11°323	2°004	66728	7	6°649	5°288
66368	4	20°619	20°978	66442	11	10°184	23°239					66655	6	11°352	2°404	66729	18	6°988	5°587
66369	9	21°399	20°235	66443	7	12°422	23°115					66656	12	12°074	2°002	66730	5	8°823	5°379
66370	10	23°226	20°310	66444*	36	14°916	23°280					66657	7	12°453	2°988	66731	7	10°136	5°008
66371	7	2°519	21°191	66445*	14	17°529	23°760					66658	4	13°088	2°831	66732	5	10°164	5°861
66372	11	3°183	21°659	66446	11	19°586	23°152					66659	11	15°555	2°055	66733	8	10°506	5°992
66373	12	4°085	21°215	66447	11	19°649	23°887					66660	14	15°826	2°556	66734	10	10°705	5°527
66374	10	6°218	21°813	66448	5	19°828	23°930					66661	5	15°888	2°994	66735	9	11°084	5°457
66375	8	8°664	21°167	66449	5	20°664	23°712					66662	7	17°051	2°068	66736	6	11°477	5°378
66376	18	8°698	21°572	66450	7	21°428	23°100					66663	6	19°389	2°897	66737	7	11°970	5°296
66377	5	9°437	21°548	66451	5	21°850	23°754					66664	10	19°807	2°621	66738*	28	14°003	5°079
66378	5	10°234	21°592	66452	11	23°711	23°081					66665	9	20°925	2°086	66739	14	14°054	5°331
66379	7	10°359	21°593	66453	14	0°110	24°834					66666	10	21°546	2°078	66740	7	14°118	5°687
66380	10	10°985	21°733	66454*	13	2°180	24°262					66667	6	22°114	2°223	66741	14	14°848	5°245
66381	10	11°148	21°562	66455	9	3°352	24°257					66668	13	23°655	2°637	66742*	21	15°444	5°775
66382	15	11°162	21°621	66456	6	3°431	24°804					66669	11	0°876	3°848	66743	9	16°399	5°873
66383	4	11°451	21°924	66457*	33	5°286	24°997					66670	6	2°076	3°390	66744	4	16°668	5°982
66384*	23	11°635	21°465	66458	4	5°305	24°960					66671	11	3°839	3°125	66745	7	17°073	5°286
66385	11	12°808	21°559	66459	7	5°623	24°193					66672	8	4°483	3°714	66746	16	17°566	5°517
66386	10	13°883	21°578	66460	14	6°790	24°631					66673	7	5°209	3°258	66747	11	18°010	5°454
66387	8	15°934	21°650	66461	18	8°142	24°377					66674	13	5°461	3°944	66748	12	21°514	5°058
66388	7	16°368	21°985	66462	17	9°371	24°134					66675	12	9°754	3°845	66749	4	24°129	5°965
66389	7	16°612	21°497	66463	12	10°538	24°416					66676	15	9°783	3°564	66750	10	25°138	5°417
66390	11	16°917	21°284	66464	8	12°947	24°653					66677*	27	11°507	3°272	66751	16	0°834	6°396
66391	7	17°851	21°195	66465	16	13°422	24°229					66678	9	11°983	3°906	66752	7	1°052	6°841
66392	12	18°621	21°851	66466	7	13°856	24°837					66679	9	12°585	3°570	66753	6	3°628	6°441
66393	4	18°969	21°230	66467	11</														

66762	21	12'902	6'975	66836	10	4'074	9'930	66910	13	9'237	12'058	66984	6	9'527	15'172	67058	28	17'885	17'419
66763	14	13'411	6'065	66837	4	6'490	9'854	66911	11	10'443	12'966	66985	11	9'646	15'334	67059	7	19'197	17'340
66764	9	14'851	6'810	66838*	14	13'198	9'118	66912	9	11'650	12'409	66986*	38	10'907	15'700	67060	9	22'976	17'068
66765	6	15'134	6'309	66839	7	14'616	9'501	66913	12	11'707	12'422	66987	6	11'333	15'728	67061	23	25'251	17'726
66766	10	15'363	6'565	66840	22	16'163	9'786	66914	7	12'708	12'139	66988	8	12'716	15'005	67062	11	25'406	17'577
66767	4	18'268	6'817	66841	7	16'721	9'423	66915	28	12'871	12'654	66989	9	13'486	15'446	67063	30	25'456	17'522
66768	10	20'011	6'677	66842	10	19'860	9'701	66916	10	16'237	12'075	66990	6	13'677	15'996	67064	8	0'027	18'771
66769*	29	20'652	6'149	66843	11	19'994	9'653	66917	8	16'249	12'565	66991*	29	14'271	15'125	67065	5	3'807	18'374
66770	6	22'636	6'740	66844	4	20'829	9'801	66918	6	18'825	12'528	66992	11	15'323	15'316	67066	4	3'969	18'653
66771	6	23'785	6'305	66845	4	21'444	9'259	66919	5	19'954	12'769	66993	9	15'865	15'586	67067	13	4'485	18'196
66772	11	0'702	7'392	66846	7	23'926	9'033	66920	6	23'459	12'921	66994	8	18'067	15'932	67068	11	4'488	18'184
66773	7	2'868	7'997	66847	12	24'938	9'592	66921	14	23'960	12'600	66995	13	20'468	15'835	67069	8	4'781	18'718
66774	19	3'090	7'169	66848	16	25'803	9'181	66922	8	24'776	12'367	66996	6	22'362	15'170	67070*	20	5'549	18'632
66775	12	3'352	7'072	66849	8	0'741	10'822	66923	4	0'856	13'110	66997	17	23'733	15'187	67071	5	7'382	18'100
66776	8	4'970	7'440	66850	9	1'194	10'336	66924	11	1'785	13'923	66998	6	23'826	15'186	67072*	11	7'961	18'143
66777*	21	5'963	7'790	66851	12	2'417	10'803	66925	5	2'124	13'506	66999	16	24'834	15'162	67073	12	7'972	18'112
66778	10	6'546	7'146	66852	9	4'140	10'804	66926	6	3'644	13'850	67000	18	0'874	16'360	67074	10	9'764	18'644
66779	12	7'227	7'515	66853	8	4'156	10'778	66927	16	4'911	13'710	67001	21	1'318	16'528	67075	5	9'816	18'451
66780	13	8'135	7'224	66854	19	4'731	10'600	66928	8	5'499	13'311	67002	11	1'476	16'414	67076	18	11'452	18'343
66781	11	9'645	7'076	66855	10	6'927	10'870	66929	4	5'648	13'731	67003	9	1'916	16'250	67077	16	12'531	18'957
66782	11	10'254	7'907	66856*	24	8'554	10'321	66930	10	5'779	13'274	67004	6	1'973	16'808	67078	13	12'957	18'334
66783	5	10'262	7'121	66857*	18	9'495	10'978	66931	6	7'481	13'967	67005	8	2'477	16'228	67079*	44	13'728	18'996
66784	13	10'788	7'260	66858	4	11'655	10'606	66932	5	8'229	13'520	67006*	36	3'301	16'012	67080	7	14'761	18'745
66785	9	12'549	7'218	66859	9	13'681	10'158	66933	4	8'640	13'843	67007	7	4'070	16'253	67081	13	14'890	18'309
66786	11	13'434	7'645	66860	8	14'878	10'334	66934	5	9'439	13'442	67008	8	4'119	16'312	67082	18	15'352	18'690
66787	10	15'548	7'331	66861	6	14'975	10'496	66935	11	10'080	13'014	67009	10	4'337	16'756	67083	5	15'888	18'119
66788	6	17'459	7'464	66862	17	16'347	10'077	66936*	20	10'739	13'807	67010	12	4'341	16'517	67084	14	16'060	18'651
66789	14	18'441	7'919	66863	6	16'682	10'131	66937	11	14'834	13'561	67011	11	4'372	16'036	67085	7	16'414	18'874
66790	12	18'932	7'322	66864	9	20'116	10'987	66938*	19	17'408	13'354	67012	13	4'691	16'902	67086	6	16'521	18'493
66791	5	20'369	7'477	66865	12	22'158	10'954	66939	7	17'707	13'673	67013	10	5'133	16'814	67087	13	18'577	18'764
66792	7	20'433	7'100	66866	5	23'800	10'567	66940	11	18'168	13'365	67014	4	5'514	16'777	67088*	34	19'333	18'146
66793*	21	21'047	7'895	66867	17	24'300	10'433	66941	6	19'161	13'713	67015*	23	6'615	16'897	67089	8	20'458	18'597
66794*	29	21'122	7'710	66868	10	24'363	10'979	66942	5	20'358	13'019	67016	9	7'621	16'678	67090	5	20'547	18'985
66795	11	21'562	7'328	66869	7	24'742	10'649	66943	12	20'384	13'938	67017	11	8'436	16'507	67091	25	21'309	18'072
66796	6	21'769	7'504	66870	14	25'959	10'393	66944	12	21'884	13'359	67018*	43	9'417	16'917	67092	7	22'104	18'256
66797	8	22'234	7'476	66871	13	1'134	11'221	66945	7	23'907	13'413	67019	12	10'203	16'760	67093	9	24'280	18'030
66798	7	22'503	7'116	66872	9	1'303	11'700	66946	5	24'403	13'136	67020	7	10'499	16'720	67094	8	24'287	18'547
66799	5	22'702	7'231	66873	10	1'421	11'367	66947	10	24'522	13'805	67021	15	10'854	16'430	67095	9	24'589	18'831
66800*	16	23'851	7'920	66874	7	2'320	11'436	66948	11	24'525	13'963	67022	9	12'107	16'061	67096	11	2'050	19'095
66801	12	2'935	8'924	66875	7	3'755	11'531	66949	9	24'642	13'542	67023	8	15'153	16'022	67097	9	2'175	19'973
66802*	17	3'183	8'058	66876*	21	4'446	11'496	66950	6	1'114	14'068	67024	7	15'804	16'733	67098	14	4'049	19'412
66803	6	4'940	8'147	66877	10	5'055	11'985	66951	9	2'646	14'755	67025*	46	16'352	16'258	67099	6	4'114	19'524
66804	7	5'066	8'489	66878	4	5'531	11'364	66952	9	3'294	14'798	67026	8	17'142	16'987	67100	8	4'127	19'573
66805	4	6'025	8'966	66879	8	5'894	11'694	66953*	43	3'719	14'721	67027*	21	19'979	16'166	67101	5	4'132	19'762
66806	11	6'031	8'358	66880	10	6'895	11'602	66954	23	5'064	14'516	67028*	79	21'339	16'549	67102	6	4'140	19'553
66807	17	6'835	8'625	66881	6	8'528	11'362	66955*	37	7'972	14'055	67029	10	21'728	16'479	67103	12	5'761	19'327
66808	8	6'976	8'184	66882*	11	9'984	11'027	66956*	42	9'320	14'905	67030	7	22'191	16'185	67104	19	5'982	19'630
66809*	31	7'568	8'274	66883	6	11'261	11'029	66957	10	10'153	14'316	67031	11	22'394	16'868	67105	13	6'301	19'122
66810	10	7'940	8'879	66884	9	12'385	11'834	66958	12	13'492	14'860	67032	8	23'520	16'503	67106	7	6'330	19'331
66811	11	8'951	8'075	66885	12	17'325	11'675	66959	11	14'292	14'277	67033	6	24'306	16'059	67107	12	6'659	19'161
66812	13	10'587	8'424	66886	5	17'830	11'158	66960*	13	15'729	14'322	67034*	23	24'859	16'773	67108	8	6'758	19'990
66813	14	10'915	8'571	66887	6	19'067	11'337	66961	11	15'941	14'427	67035	26	25'138	16'945	67109	5	7'640	19'982
66814	10	11'305	8'075	66888	18	19'074	11'701	66962	7	18'565	14'123	67036	18	0'010	17'330	67110	17	7'734	19'946
66815	4	12'862	8'189	66889	10	19'089	11'025	66963	9	19'377	14'019	67037	4	3'394	17'330	67111	5	8'142	19'111
66816	32	12'871	8'393	66890	11	19'434	11'243	66964	5	19'412	14'297	67038	4	3'415	17'875	67112	11	8'318	19'174
66817	17	14'024	8'368	66891	10	19'569	11'684	66965	11	20'098	14'678	67039	5	3'431	17'985	67113*	45	8'709	19'396
66818	10	16'665	8'789	66892	13	22'408	11'304	66966	11	20'761	14'092	67040*	44	3'594	17'706	67114	5	9'151	19'601
66819	10	18'814	8'050	66893	12	23'247	11'180	66967	12	20'827	14'239	67041	9	4'239	17'346	67115	12	9'174	19'399
66820	4	19'077	8'826	66894	5	23'411	11'916	66968	10	20'951	14'758	67042	8	4'389	17'771	67116	7	10'413	19'539
66821	12	19'383	8'302	66895	10	24'009	11'385	66969	6	22'075	14'169	67043	12	4'851	17'053	67117	13	10'466	19'540
66822	16	19'950	8'718	66896	12	24'891	11'303	66970	5	22'795	14'052	67044	13	6'634	17'177	67118	9	11'014	19'023
66823	9	20'825	8'206	66897*	60	25'066	11'129	66971	4	22'936	14'554	67045	11	6'648	17'487	67119	4	11'465	19'979
66824	4	21'304	8'177	66898	10	25'896	11'877	66972	12	23'461	14'919	67046	4	6'916	17'499	67120	13	12'500	

67132	7	3°042	20°494	67206	10	12°856	22°889	67280	11	2°151	25°785	67423	11	9°323	1°342	67497	5	3°735	5°969
67133	10	3°077	20°993	67207	9	13°249	22°393	67281	6	2°215	25°886	67424	8	9°695	1°755	67498	10	5°958	5°205
67134	5	3°479	20°393	67208	7	13°390	22°412	67282	12	4°697	25°859	67425*	26	19°035	1°965	67499	6	6°053	5°978
67135	10	3°598	20°831	67209	16	13°764	22°874	67283*	22	6°961	25°513	67426	11	24°552	1°472	67500	11	7°746	5°875
67136	8	5°481	20°283	67210	13	15°549	22°419	67284	13	7°063	25°398	67427*	13	25°425	1°744	67501	8	8°580	5°214
67137	4	5°728	20°126	67211	8	16°272	22°072	67285*	15	7°096	25°339	67428	6	1°903	2°529	67502	12	8°685	5°727
67138	20	6°110	20°175	67212	13	16°906	22°139	67286	8	7°217	25°844	67429	5	2°909	2°725	67503	16	8°746	5°225
67139	4	6°294	20°327	67213	9	17°213	22°678	67287	19	7°919	25°575	67430	8	3°326	2°915	67504	12	9°324	5°835
67140	10	6°515	20°456	67214	11	19°131	22°882	67288	12	7°986	25°213	67431	9	3°671	2°382	67505	8	10°536	5°006
67141	13	6°578	20°845	67215	8	20°124	22°340	67289	5	8°388	25°069	67432*	22	3°737	2°996	67506	8	11°286	5°016
67142	6	9°093	20°738	67216	31	22°386	22°031	67290	14	8°430	25°513	67433	18	4°175	2°195	67507	5	13°175	5°084
67143	5	9°900	20°279	67217	27	23°820	22°569	67291	14	9°431	25°561	67434	6	4°184	2°865	67508	10	13°644	5°695
67144	8	10°274	20°669	67218	6	24°583	22°574	67292	5	10°404	25°005	67435	6	4°533	2°373	67509	12	15°276	5°235
67145	6	11°204	20°529	67219	11	24°887	22°495	67293	10	10°661	25°369	67436	7	4°775	2°226	67510*	14	16°602	5°243
67146	7	11°467	20°563	67220	10	0°102	23°259	67294	8	11°072	25°798	67437	6	5°625	2°953	67511	6	17°419	5°399
67147	10	11°508	20°758	67221	5	1°406	23°066	67295	11	11°191	25°286	67438	13	6°815	2°615	67512	8	17°676	5°775
67148	6	11°873	20°301	67222	14	1°467	23°020	67296	19	11°964	25°144	67439*	18	8°492	2°204	67513	5	18°779	5°167
67149	6	11°972	20°014	67223	5	2°590	23°855	67297	5	11°978	25°863	67440	5	9°625	2°090	67514	8	19°610	5°677
67150	12	12°674	20°063	67224	14	3°372	23°689	67298	4	13°015	25°732	67441	10	9°836	2°386	67515	9	19°925	5°204
67151*	25	13°462	20°053	67225	5	3°550	23°101	67299	5	14°701	25°441	67442	26	12°600	2°265	67516	7	20°074	5°148
67152	14	13°901	20°488	67226	7	3°931	23°528	67300	18	16°054	25°932	67443	18	12°876	2°693	67517*	10	20°454	5°253
67153	10	18°011	20°737	67227	21	5°089	23°129	67301	6	16°291	25°782	67444	7	14°015	2°904	67518	12	20°458	5°257
67154	4	18°505	20°120	67228	11	5°194	23°652	67302	9	17°263	25°381	67445	6	14°143	2°612	67519*	25	21°185	5°345
67155	11	18°965	20°215	67229	6	6°511	23°760	67303	8	17°272	25°146	67446	6	15°564	2°423	67520	6	22°574	5°955
67156	5	19°689	20°818	67230	4	6°597	23°839	67304	7	18°025	25°611	67447	7	16°095	2°496	67521	6	22°659	5°527
67157	14	19°817	20°175	67231	21	6°641	23°007	67305	11	18°306	25°871	67448	6	21°556	2°605	67522	5	23°585	5°606
67158	8	20°067	20°584	67232	5	7°914	23°278	67306	29	21°835	25°906	67449*	24	24°626	2°450	67523	6	0°026	6°249
67159	16	20°359	20°506	67233	11	7°931	23°139	67307	7	23°527	25°146	67450	7	1°865	3°555	67524	12	2°894	6°098
67160	13	23°655	20°389	67234	4	9°344	23°778	67308	24	23°541	25°989	67451	11	2°185	3°695	67525	10	3°845	6°653
67161	18	24°239	20°574	67235*	27	9°657	23°072					67452	12	5°865	3°144	67526*	12	4°044	6°444
67162	7	25°123	20°876	67236	13	10°113	23°286					67453	8	5°965	3°777	67527	14	4°256	6°654
67163	9	25°958	20°341	67237	12	10°196	23°635					67454	6	5°986	3°417	67528	6	5°112	6°604
67164	53	0°337	21°642	67238	20	10°232	23°277					67455	5	7°924	3°570	67529	9	8°420	6°894
67165	7	0°582	21°346	67239	5	11°738	23°995					67456	8	10°969	3°266	67530*	17	11°164	6°435
67166	6	2°368	21°495	67240	11	11°918	23°585					67457	14	11°255	3°994	67531*	16	12°804	6°085
67167	4	2°541	21°870	67241	10	13°494	23°299					67458	6	11°575	3°216	67532	10	13°205	6°105
67168	19	3°289	21°354	67242	23	14°667	23°806					67459	12	11°596	3°545	67533	9	13°585	6°783
67169	13	3°712	21°126	67243	7	15°171	23°588					67460	7	13°184	3°804	67534	12	14°365	6°715
67170*	26	3°845	21°183	67244	12	15°643	23°922					67461	7	13°625	3°404	67535	6	14°672	6°336
67171	13	4°897	21°123	67245	12	16°139	23°155					67462	8	13°864	3°517	67536	12	18°437	6°665
67172	9	5°583	21°817	67246	11	18°366	23°126					67463	6	14°204	3°866	67537	6	22°105	6°031
67173	10	5°809	21°489	67247	4	18°548	23°062					67464	6	16°135	3°555	67538	7	22°595	6°375
67174	8	7°460	21°944	67248	8	19°076	23°075					67465	14	17°585	3°504	67539	6	22°638	6°024
67175	11	8°319	21°856	67249	9	20°594	23°667					67466	10	17°719	3°834	67540	7	25°207	6°125
67176	10	10°247	21°376	67250	10	20°720	23°928					67467	11	18°645	3°746	67541*	18	4°445	7°204
67177	8	11°064	21°685	67251	4	22°821	23°038					67468	6	19°275	3°761	67542	6	5°335	7°318
67178	7	11°230	21°924	67252	14	23°783	23°865					67469*	20	23°746	3°725	67543	5	6°105	7°965
67179	6	11°760	21°327	67253	15	24°704	23°762					67470	11	24°037	3°688	67544	14	7°164	7°794
67180	18	12°659	21°567	67254	7	3°128	24°078					67471*	22	24°194	3°348	67545*	34	9°395	7°055
67181	10	12°785	21°438	67255	5	3°137	24°142					67472	17	0°016	4°345	67546*	22	9°672	7°256
67182	7	13°956	21°841	67256	4	3°160	24°647					67473	10	0°135	4°735	67547	8	10°375	7°476
67183	5	14°274	21°620	67257*	15	4°749	24°309					67474	6	4°377	4°480	67548	7	10°579	7°475
67184	8	15°531	21°775	67258	4	5°578	24°606					67475	10	4°688	4°027	67549	18	13°323	7°647
67185	8	15°574	21°798	67259	9	6°689	24°931					67476	7	4°886	4°395	67550	12	13°868	7°234
67186	9	16°360	21°667	67260	8	8°047	24°496					67477	6	8°014	4°295	67551	8	14°262	7°874
67187	8	16°480	21°389	67261	12	8°471	24°979					67478	5	8°142	4°805	67552*	24	14°265	7°267
67188	7	16°955	21°806	67262	10	8°550	24°281					67479	7	8°356	4°127	67553	14	14°736	7°246
67189*	31	17°453	21°090	67263	9	8°561	24°530					67480	6	10°884	4°564	67554	15	15°205	7°025
67190	16	17°629	21°502	67264*	37	8°795	24°668					67481*	14	11°773	4°735	67555	14	15°895	7°217
67191	10	18°061	21°978	67265	4	9°461	24°423					67482	7	12°836	4°856	67556	6	17°334	7°315
67192	12	19°838	21°208	67266	9	9°517	24°161					67483	6	13°508	4°646	67557	12	18°575	7°096
67193	23	22°470	21°389	67267	12	9°891	24°003					67484	6	15°459	4°505	67558*	35	19°324	7°616
67194	9	24°219	21°899	67268	9	10°438	24°094					67485	7	19°024	4°564	67559*	28	20°696	7°445
67195	10	25°916	21°863	67269	7	15°541	24°159					67486	8	19°184	4°108	67560	6	20°936	7°705
67196	39	0°153	22°529	67270	10	16°030	24°448					67487	11	19°482	4°365	67561	16	21°123	7°842
67197	7	1°877	22°212	67271	11	16°303	24°596					67488	15	20°670	4°411	67562	7	22°645	7°335
67198*	37	2°184	22°139	67272	7	16°569	24°518					67489*	20	20°777	4°945	67563	8	23°184	7°206
67199	5	4°823	22°920	67273	12	17°636	24°008					67490	6						

67571	8	5°124	8°605	67645	15	10°294	11°124	67719	6	7°314	15°556	67793	6	23°885	18°135	67867	8	16°574	22°615
67572*	12	5°927	8°757	67646	7	15°575	11°184	67720	6	8°236	15°718	67794	8	24°699	18°071	67868	14	18°142	22°923
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67575*	15	8°114	8°643	67649	6	21°227	11°037	67723*	30	11°370	15°405	67797	6	6°474	19°734	67871	9	22°725	22°955
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67577	7	11°914	8°189	67651*	13	23°025	11°757	67725	14	19°064	15°046	67799	14	8°085	19°144	67873	6	1°935	23°784
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67581*	34	16°027	8°754	67655	6	0°778	12°639	67729	10	24°155	15°005	67803	13	20°145	19°395	67877	5	7°205	23°127
67582	8	16°035	8°848	67656	7	1°891	12°135	67730	7	24°352	15°939	67804	8	21°064	19°007	67878	7	7°286	23°535
67583	12	16°886	8°310	67657	12	2°006	12°709	67731	6	1°509	16°846	67805	6	23°939	19°705	67879	6	8°696	23°925
67584	7	17°324	8°284	67658	6	2°406	12°505	67732	11	5°346	16°585	67806	6	25°844	19°443	67880	8	9°525	23°595
67585	7	17°824	8°603	67659*	16	3°724	12°932	67733	8	6°349	16°823	67807	14	0°374	20°856	67881	10	10°598	23°127
67586	16	19°675	8°572	67660	10	3°732	12°520	67734	10	6°766	16°472	67808	7	2°091	20°597	67882*	19	10°800	23°105
67587	5	20°325	8°006	67661	5	4°741	12°795	67735*	19	6°905	16°446	67809	6	2°245	20°105	67883	8	11°523	23°583
67588	12	20°614	8°594	67662*	12	5°759	12°967	67736	6	9°919	16°895	67810	18	2°863	20°405	67884	7	14°286	23°955
67589	11	20°815	8°405	67663	6	6°638	12°436	67737*	46	10°913	16°357	67811	7	3°503	20°554	67885	7	18°044	23°215
67590	10	22°909	8°979	67664	8	7°136	12°126	67738	7	10°979	16°155	67812	21	3°705	20°062	67886	13	18°361	23°689
67591	13	24°946	8°238	67665*	28	8°155	12°338	67739	6	11°496	16°124	67813	7	6°158	20°575	67887*	22	18°821	23°005
67592	6	25°234	8°729	67666	12	9°576	12°539	67740	5	14°415	16°280	67814	6	7°148	20°581	67888*	25	20°935	23°547
67593	9	25°885	8°835	67667	8	11°634	12°575	67741	6	16°105	16°206	67815	7	7°663	20°957	67889	5	24°543	23°817
67594	10	0°895	9°865	67668	7	13°685	12°156	67742	7	16°344	16°917	67816*	24	9°176	20°575	67890*	10	25°821	23°714
67595	14	1°754	9°443	67669	6	13°775	12°840	67743	12	17°296	16°952	67817*	20	9°728	20°675	67891	8	0°850	24°994
67596	6	2°885	9°396	67670	6	17°724	12°205	67744	11	19°902	16°155	67818	8	9°926	20°237	67892	14	0°888	24°043
67597	8	4°074	9°884	67671	14	18°015	12°135	67745	19	19°980	16°704	67819	7	12°025	20°555	67893	8	2°900	24°955
67598	14	5°415	9°789	67672*	18	18°250	12°600	67746	6	20°910	16°962	67820	6	12°111	20°065	67894	9	2°924	24°015
67599	12	5°540	9°337	67673	8	20°555	12°465	67747*	26	23°016	16°195	67821	8	15°006	20°847	67895	10	4°216	24°517
67600	6	6°205	9°205	67674	6	20°705	12°133	67748	6	24°806	16°459	67822	6	15°230	20°865	67896	11	5°096	24°615
67601	5	6°334	9°684	67675	12	23°724	12°786	67749*	22	0°933	17°046	67823	8	16°103	20°113	67897*	35	6°074	24°304
67602	10	7°515	9°117	67676	10	24°336	12°095	67750	24	1°215	17°214	67824*	18	16°812	20°475	67898*	30	6°583	24°014
67603	6	8°684	9°659	67677	12	25°724	12°114	67751	20	1°339	17°995	67825	6	16°966	20°566	67899	6	6°837	24°019
67604	7	10°935	9°715	67678	6	0°664	13°824	67752	10	1°495	17°845	67826	8	17°054	20°616	67900	9	9°887	24°324
67605	8	14°517	9°418	67679*	18	2°686	13°854	67753	27	1°539	17°787	67827	12	17°460	20°705	67901	6	10°684	24°504
67606	12	17°378	9°833	67680	6	3°693	13°345	67754	7	3°306	17°842	67828	10	21°648	20°294	67902*	35	11°536	24°226
67607	11	19°045	9°316	67681	15	4°915	13°385	67755	11	3°531	17°304	67829	6	22°105	20°395	67903	8	12°275	24°590
67608	5	20°857	9°268	67682*	15	6°095	13°514	67756	5	4°498	17°935	67830	10	22°894	20°905	67904	25	14°207	24°308
67609	5	21°725	9°137	67683	10	7°834	13°025	67757*	18	4°860	17°115	67831	12	23°374	20°217	67905	8	15°754	24°097
67610	6	24°104	9°123	67684	16	8°805	13°654	67758	13	4°895	17°965	67832	10	3°915	21°196	67906	9	18°028	24°283
67611	14	0°273	10°715	67685	6	10°524	13°111	67759	9	6°632	17°444	67833	7	4°537	21°281	67907*	20	19°445	24°874
67612	5	0°721	10°927	67686	16	11°192	13°854	67760	5	7°725	17°634	67834	20	4°722	21°885	67908*	18	22°284	24°744
67613	12	1°931	10°652	67687	7	11°643	13°757	67761	10	9°275	17°445	67835*	22	5°717	21°249	67909	16	22°995	24°606
67614	14	2°645	10°427	67688	14	12°744	13°874	67762	6	9°316	17°944	67836	6	5°863	21°116	67910	6	23°267	24°173
67615	6	2°782	10°925	67689	10	12°876	13°046	67763*	38	9°775	17°013	67837	12	6°075	21°254	67911	7	4°182	25°954
67616	8	3°935	10°096	67690	6	12°878	13°867	67764	8	10°696	17°866	67838	18	6°184	21°836	67912	18	4°404	25°180
67617	11	5°015	10°328	67691	6	13°785	13°799	67765	7	10°854	17°626	67839*	19	9°556	21°298	67913	7	6°865	25°054
67618	7	6°116	10°794	67692	5	14°624	13°586	67766*	18	11°105	17°804	67840	8	11°002	21°682	67914	7	7°657	25°745
67619	7	9°822	10°216	67693	8	20°723	13°754	67767	8	11°375	17°146	67841	17	11°120	21°839	67915	8	7°724	25°417
67620	6	15°801	10°023	67694	7	23°629	13°929	67768	8	11°955	17°916	67842	14	11°736	21°434	67916	6	12°952	25°625
67621	6	15°833	10°054	67695	8	24°136	13°784	67769	17	12°787	17°045	67843	8	12°994	21°834	67917*	22	17°335	25°440
67622	7	17°865	10°824	67696*	34	24°406	13°167	67770*	22	13°155	17°155	67844	7	13°363	21°885	67918	8	19°775	25°185
67623	15	21°485	10°605	67697	6	24°728	13°294	67771	7	13°589	17°538	67845	11	13°805	21°297	67919	7	21°144	25°294
67624*	26	21°595	10°074	67698	10	0°547	14°085	67772	6	13°927	17°366	67846	14	18°952	21°694	67920	11	21°235	25°505
67625	12	23°622	10°625	67699	8	0°554	14°242	67773	20	14°689	17°400	67847	12	19°686	21°024	67921	32	23°556	25°816
67626	10	24°305	10°904	67700	14	2°905	14°865	67774*	18	15°244	17°735	67848	5	25°246	21°466				
67627	7	0°346	11°262	67701	6	3°118	14°669	67775	7	16°516	17°504	67849	8	1°045	22°774				
67628	10	0°876	11°575	67702*	28	4°558	14°154	67776	9	20°356	17°448	67850	7	2°068	22°122				
67629*	56	1°055	11°404	67703*	15	6°189	14°653	67777	6	21°225	17°075	67851	24	2°796	22°215				
67630	6	2°018	11°425	67704*	14	6°745	14°176	67778	7	21°476	17°754	67852	8	4°675	22°465				
67631	21	2°726	11°555	67705*	34	15°026	14°834	67779	10	22°135	17°618	67853*	28	5°445	22°301				
67632	8	2°855	11°653	67706	10	16°345	14°565	67780	13	25°334	17°499	67854	6	5°775	22°935				
67633*	12	3°594	11°010	67707	8	16°564	14°812	67781	6	0°376	18°314	67855	8	6°484	22°344				
67634	10	3°721	11°003	67708*	29	17°768	14°242	67782	7	6°227	18°262	67856	11	8°336	22°994				

R. A. 22^h 3^m

Plate 205; 1892 Sept. 24.

Provisional Constants.

A	B	C
+00775	+00536	-4387

D	E	F
-00541	+00775	-8093

Mag. = 13.7 - 1.02 $\sqrt{d}$

No.	d	x	y
68001	9	2.106	0.283
68002	10	2.112	0.582
68003	9	2.357	0.497
68004	12	12.235	0.327
68005	10	14.368	0.131
68006	14	15.029	0.329
68007	9	19.920	0.143
68008	21	23.597	0.771
68009	26	0.071	1.887
68010	11	0.861	1.155
68011	12	3.592	1.499
68012	8	4.124	1.877
68013	11	10.771	1.853
68014	10	11.269	1.394
68015	9	12.268	1.757
68016	20	17.270	1.380
68017	10	21.508	1.006
68018	11	25.083	1.029
68019	17	5.230	2.574
68020	12	5.332	2.137
68021	9	7.364	2.380
68022	23	12.011	2.738
68023	10	1.694	3.987
68024	9	5.616	3.552
68025	18	5.981	3.188
68026	10	7.909	3.648
68027	9	8.981	3.827
68028	11	12.434	3.039
68029	18	12.471	3.225
68030	11	13.891	3.080
68031	12	15.494	3.268
68032	9	19.763	3.185
68033	56	22.530	3.053
68034	10	7.912	4.523
68035	12	12.255	4.936
68036	9	20.882	4.284
68037	10	23.046	4.124
68038	10	1.690	5.085
68039	12	1.953	5.465
68040	9	3.153	5.956
68041	12	6.708	5.973
68042	11	7.334	5.619
68043	26	11.283	5.547
68044	11	11.685	5.283
68045	8	13.487	5.929
68046	8	14.450	5.604
68047	10	14.973	5.747
68048	8	21.948	5.719
68049	17	23.044	5.813
68050	9	23.986	5.379
68051	12	2.360	6.411
68052	22	3.778	6.296
68053	11	3.961	6.877
68054	23	5.507	6.352
68055	8	6.039	6.622
68056	10	7.494	6.057

68057*	38	8.250	6.032	68131	10	4.133	12.233	68205*	66	7.572	18.034
68058*	22	8.330	6.877	68132	11	5.989	12.985	68206*	18	7.601	18.853
68059	8	10.075	6.298	68133	10	8.840	12.765	68207	9	7.698	18.192
68060	12	14.133	6.831	68134	9	12.576	12.427	68208	10	8.447	18.496
68061*	14	14.851	6.836	68135	10	12.784	12.394	68209	9	8.742	18.500
68062	9	18.370	6.019	68136*	18	16.338	12.513	68210	9	10.519	18.225
68063	12	18.822	6.269	68137	10	16.559	12.315	68211	10	13.190	18.859
68064	10	18.971	6.448	68138	8	17.087	12.161	68212	11	15.243	18.919
68065	6	20.495	6.567	68139	9	20.568	12.738	68213*	20	20.609	18.697
68066	9	20.957	6.966	68140	14	21.096	12.064	68214	10	24.289	18.180
68067	13	0.513	7.715	68141*	34	23.296	12.726	68215	18	25.158	18.393
68068	10	0.630	7.356	68142	10	3.584	13.984	68216	10	5.365	19.252
68069*	20	7.118	7.668	68143*	16	4.212	13.212	68217	8	8.964	19.856
68070	9	13.283	7.253	68144	8	5.296	13.433	68218	10	9.729	19.698
68071*	19	13.371	7.913	68145	9	5.562	13.072	68219*	12	10.723	19.388
68072	8	15.363	7.274	68146	9	5.835	13.427	68220*	11	11.986	19.185
68073	8	16.042	7.638	68147	8	6.027	13.247	68221	10	14.587	19.479
68074*	14	16.472	7.307	68148	8	7.899	13.567	68222	14	17.113	19.308
68075*	20	17.278	7.226	68149	11	14.227	13.689	68223	10	21.286	19.677
68076	9	19.122	7.546	68150	10	15.599	13.269	68224	9	21.963	19.422
68077	11	21.011	7.173	68151	9	16.128	13.517	68225*	32	24.772	19.089
68078	20	1.865	8.881	68152	9	17.371	13.489	68226	8	2.779	20.039
68079	10	5.867	8.750	68153	17	19.344	13.735	68227	11	3.282	20.105
68080	11	9.008	8.563	68154	9	20.146	13.315	68228	9	6.934	20.213
68081	9	11.904	8.423	68155	10	5.602	14.669	68229	11	7.441	20.928
68082	12	13.432	8.115	68156	9	5.864	14.983	68230	9	10.357	20.114
68083*	20	15.520	8.049	68157	10	10.397	14.851	68231	11	10.580	20.591
68084*	22	16.773	8.813	68158	9	13.821	14.690	68232	9	10.891	20.619
68085	9	16.845	8.740	68159	10	16.072	14.848	68233*	18	15.591	20.862
68086	10	17.171	8.653	68160	9	20.402	14.281	68234	9	17.651	20.129
68087	11	18.068	8.137	68161	12	1.979	15.446	68235	9	17.717	20.153
68088	14	18.362	8.813	68162	12	2.273	15.568	68236*	14	20.981	20.353
68089*	22	20.233	8.056	68163	10	2.656	15.362	68237	10	4.839	21.721
68090	11	5.792	9.042	68164	20	8.363	15.457	68238	14	7.061	21.729
68091	9	9.077	9.517	68165	10	9.370	15.961	68239	10	8.191	21.696
68092	9	10.406	9.249	68166	10	9.549	15.869	68240*	17	10.355	21.043
68093	12	10.730	9.508	68167*	19	10.823	15.901	68241	12	14.311	21.609
68094	13	12.124	9.586	68168	10	11.991	15.077	68242	8	15.139	21.802
68095	9	12.857	9.397	68169	12	12.344	15.141	68243	10	15.836	21.612
68096*	20	12.886	9.541	68170	9	14.194	15.335	68244*	21	16.024	21.789
68097*	22	14.191	9.759	68171	12	14.749	15.408	68245	10	16.493	21.156
68098	16	15.241	9.548	68172*	19	15.067	15.181	68246	10	17.545	21.921
68099	9	16.503	9.295	68173	10	15.492	15.773	68247	13	17.592	21.624
68100	22	16.863	9.033	68174	9	16.509	15.985	68248	8	18.245	21.308
68101*	16	20.152	9.986	68175	8	18.856	15.899	68249*	56	22.948	21.418
68102	9	20.637	9.233	68176	9	22.007	15.988	68250*	22	25.557	21.800
68103	9	22.045	9.882	68177	10	5.921	16.051	68251	11	3.960	22.052
68104	11	1.212	10.684	68178	11	6.398	16.970	68252*	18	5.040	22.898
68105	10	1.693	10.595	68179*	16	6.586	16.905	68253	11	6.216	22.870
68106	9	2.390	10.838	68180	8	12.519	16.057	68254	9	6.833	22.766
68107*	39	3.246	10.658	68181	8	15.905	16.810	68255	11	13.697	22.044
68108	10	3.609	10.158	68182	11	16.513	16.008	68256	10	14.343	22.223
68109	12	4.117	10.645	68183	8	17.036	16.550	68257	9	16.403	22.486
68110	10	4.331	10.912	68184	9	22.119	16.499	68258	9	18.094	22.588
68111	9	7.976	10.827	68185	14	23.011	16.265	68259	14	21.248	22.158
68112	8	10.292	10.652	68186	7	23.308	16.996	68260*	10	1.700	23.297
68113*	28	10.544	10.181	68187	8	0.462	17.635	68261	9	6.272	23.156
68114	12	15.401	10.600	68188	12	1.084	17.043	68262	11	8.866	23.487
68115	11	15.660	10.942	68189	11	4.897	17.345	68263	10	16.663	23.447
68116	9	15.729	10.939	68190	9	5.486	17.069	68264	9	16.679	23.256
68117*	16	18.314	10.466	68191	7	5.756	17.447	68265	9	17.524	23.511
68118*	21	18.737	10.866	68192*	12	6.585	17.143	68266	11	17.696	23.286
68119	9	20.444	10.075	68193	8	7.743	17.847	68267*	20	21.815	23.137
68120*	20	23.304	10.000	68194	10	11.001	17.581	68268*	12	22.990	23.094
68121	12	1.370	11.607	68195	9	11.931	17.038	68269	10	2.094	24.984
68122	19	1.515	11.208	68196*	20	12.575	17.953	68270*	12	5.881	24.506
68123	9	1.898	11.452	68197	8	14.063	17.861	68271	9	6.616	24.652
68124	10	5.886	11.153	68198	11	14.697	17.781	68272	10	8.489	24.237
68125*	11	5.984	11.024	68199	10	14.767	17.893	68273	9	9.773	24.648
68126*	20	12.335	11.649	68200	9	18.538	17.895	68274	12	20.349	24.286
68127	9	15.570	11.544	68201	8	19.895	17.502	68275	10	5.162	25.891
68128	9	20.364	11.581	68202	10	20.016	17.771	68276*	11	7.046	25.141
68129	12	22.711	11.942	68203*	24	23.571	17.632	68277	10	11.440	25.409
68130*	32	0.066	12.696	68204*	12	6.254	18.783	68278	9	11.474	25.657

R. A. 22^h 12^m

Plate 1216; 1898 Sept. 28.

Provisional Constants.

A	B	C
-00024	+00641	+7389

D	E	F
-00612	-00038	+0054

Mag. = 14.1 - 1.02 $\sqrt{d}$

No.	d	x	y
68301	20	1.415	0.526
68302	13	2.594	0.314
68303	11	4.176	0.763
68304	12	4.297	0.892
68305	13	5.346	0.925
68306	10	6.460	0.965
68307	9	8.881	0.373
68308	8	14.086	0.723
68309	12	15.191	0.061
68310	9	16.304	0.155
68311*	21	16.900	0.565
68312	14	19.686	0.045
68313	8	19.710	0.394
68314*	25	23.721	0.753
68315	14	23.949	0.124
68316	13	24.031	0.226
68317	24	0.553	1.725
68318	9	0.711	1.427
68319	11	0.905	1.374
68320	12	1.320	1.047
68321*	14	2.032	1.955
68322	12	2.128	1.874
68323	14	3.003	1.853
68324	10	4.776	1.207
68325	10	5.811	1.916
68326	8	7.324	1.777
68327	22	7.376	1.970
68328	11	8.380	1.165
68329	10	10.105	1.352
68330	12	11.016	1.256
68331	9	11.517	1.255
68332*	30	14.669	1.966
68333	8	17.022	1.478
68334	12	18.094	1.183
68335	10	20.420	1.336
68336	8	20.650	1.187
68337	11	23.180	1.131
68338	12	23.826	1.548
68339*	24	24.222	1.012
68340	23	25.037	1.549
68341	10	0.124	2.163
68342	9	2.228	2.445
68343	11	2.670	2.187
68344	12	3.072	2.404
68345	18	3.320	2.012
68346	8	4.555	2.635
68347	7	5.371	2.604

68348	11	6.712	2.168	68422*	10	11.292	5.675	68496	8	16.460	8.414	68570	11	9.486	11.647	68644*	14	17.151	14.242
68349	9	8.021	2.418	68423*	14	12.815	5.599	68497	10	16.461	8.281	68571	10	9.966	11.622	68645	12	19.219	14.555
68350	10	8.454	2.914	68424*	22	14.040	5.326	68498	7	16.763	8.143	68572	9	10.625	11.977	68646	8	21.764	14.184
68351	11	9.669	2.191	68425	9	14.674	5.563	68499	8	17.685	8.208	68573	10	11.640	11.603	68647	11	24.336	14.103
68352*	12	10.054	2.349	68426	10	17.577	5.162	68500	7	17.881	8.785	68574	12	11.697	11.967	68648	14	24.452	14.086
68353	10	10.313	2.007	68427	9	19.303	5.320	68501	10	18.915	8.501	68575	10	12.902	11.559	68649	10	24.799	14.276
68354	11	11.059	2.920	68428	8	19.565	5.287	68502	9	20.071	8.855	68576	9	15.930	11.917	68650	11	25.352	14.364
68355	9	12.064	2.148	68429	8	21.668	5.196	68503	12	21.822	8.010	68577	10	16.147	11.429	68651	9	2.713	15.026
68356	10	12.211	2.986	68430	14	22.813	5.010	68504	9	24.040	8.901	68578	9	17.556	11.575	68652	11	2.962	15.062
68357	8	12.263	2.261	68431	12	23.429	5.704	68505	10	0.335	9.149	68579	11	18.457	11.021	68653	9	3.276	15.156
68358	11	12.742	2.949	68432	10	24.060	5.826	68506	13	4.455	9.735	68580	8	18.629	11.604	68654	10	3.772	15.854
68359	10	13.593	2.465	68433	14	25.354	5.869	68507	10	5.135	9.384	68581*	12	19.065	11.875	68655	18	7.485	15.591
68360	20	15.194	2.462	68434	10	0.027	6.826	68508	11	5.978	9.263	68582*	13	19.249	11.990	68656	7	8.459	15.224
68361	12	15.415	2.864	68435	21	0.100	6.736	68509	11	6.404	9.807	68583	10	22.802	11.700	68657	8	11.432	15.780
68362	12	17.663	2.801	68436	11	1.026	6.291	68510	8	6.408	9.638	68584	8	23.238	11.694	68658	12	12.517	15.688
68363	11	17.843	2.318	68437	14	2.402	6.903	68511	11	7.511	9.637	68585	8	23.428	11.247	68659	9	12.715	15.746
68364*	16	17.946	2.661	68438	9	2.686	6.219	68512	10	7.512	9.276	68586	9	23.509	11.324	68660	9	14.149	15.007
68365	10	18.954	2.838	68439	9	3.053	6.305	68513	7	7.654	9.154	68587	10	25.033	11.226	68661	14	14.475	15.833
68366	9	19.634	2.540	68440	8	4.145	6.837	68514	8	9.477	9.657	68588	11	25.779	11.531	68662	9	14.800	15.736
68367	11	19.893	2.919	68441	10	7.198	6.662	68515	11	10.005	9.143	68589	10	0.056	12.454	68663	12	15.604	15.040
68368	11	22.607	2.335	68442	9	8.029	6.902	68516	7	10.088	9.935	68590	8	0.391	12.361	68664	11	15.942	15.798
68369	15	23.390	2.764	68443	14	10.915	6.702	68517	9	10.149	9.079	68591	9	0.677	12.896	68665	9	16.799	15.769
68370	14	0.719	3.710	68444	10	11.879	6.719	68518	14	10.276	9.149	68592	9	3.863	12.212	68666	11	17.968	15.579
68371	10	2.293	3.928	68445	8	13.684	6.893	68519	11	10.541	9.178	68593	11	5.141	12.513	68667*	40	18.670	15.800
68372	12	3.155	3.598	68446	9	13.889	6.608	68520	8	10.980	9.732	68594	8	6.098	12.344	68668	11	20.007	15.157
68373	11	3.737	3.123	68447	14	14.924	6.480	68521	12	11.689	9.950	68595	10	8.206	12.947	68669*	22	20.640	15.602
68374	9	4.144	3.887	68448	12	16.712	6.240	68522	10	12.651	9.134	68596	12	14.221	12.340	68670	12	20.972	15.233
68375	10	5.416	3.708	68449	8	16.983	6.072	68523	14	12.756	9.626	68597	9	15.034	12.676	68671	8	21.817	15.933
68376	8	6.067	3.795	68450	12	18.073	6.982	68524	11	13.816	9.071	68598	8	19.165	12.292	68672	9	22.796	15.597
68377	8	6.730	3.791	68451	8	18.520	6.880	68525	9	13.942	9.552	68599	10	20.323	12.447	68673	10	23.137	15.124
68378	12	8.687	3.234	68452	14	20.433	6.546	68526	10	18.856	9.296	68600	8	21.378	12.828	68674	9	0.964	16.085
68379	9	9.179	3.544	68453	12	23.450	6.891	68527	9	20.973	9.145	68601*	20	22.729	12.327	68675	11	1.264	16.684
68380	11	9.247	3.824	68454	14	23.730	6.977	68528	13	21.995	9.612	68602	9	24.313	12.594	68676	10	3.845	16.525
68381	8	9.886	3.649	68455	9	2.559	7.156	68529	8	22.624	9.136	68603	38	0.479	13.583	68677	14	5.520	16.211
68382	14	12.148	3.283	68456	10	2.648	7.985	68530	7	22.660	9.137	68604	8	1.355	13.107	68678	12	6.281	16.397
68383	12	13.636	3.518	68457	12	4.436	7.407	68531	9	22.847	9.703	68605	9	3.123	13.686	68679	13	6.760	16.749
68384	9	14.924	3.299	68458	8	5.107	7.123	68532	9	24.039	9.699	68606	10	4.780	13.630	68680	8	6.998	16.144
68385	14	16.110	3.888	68459	12	6.718	7.567	68533	11	24.350	9.744	68607	10	5.353	13.555	68681	9	9.109	16.806
68386	8	16.217	3.412	68460	8	7.168	7.565	68534*	24	24.678	9.078	68608	8	7.226	13.015	68682	20	10.413	16.489
68387*	46	20.446	3.065	68461	12	7.677	7.537	68535	10	25.350	9.455	68609	9	8.482	13.055	68683	12	11.075	16.490
68388	8	20.911	3.536	68462	10	7.993	7.861	68536	9	0.210	10.204	68610	12	8.751	13.449	68684	10	11.241	16.923
68389*	13	21.436	3.342	68463	8	8.148	7.215	68537	28	0.438	10.885	68611	10	9.929	13.739	68685	8	11.297	16.150
68390	9	23.517	3.563	68464	10	8.393	7.865	68538	9	2.259	10.355	68612	12	10.162	13.551	68686	9	12.038	16.157
68391	11	24.030	3.115	68465	7	10.052	7.926	68539	7	4.953	10.508	68613	8	10.573	13.653	68687	8	12.153	16.349
68392	10	0.379	4.322	68466	8	11.113	7.715	68540	9	5.298	10.324	68614	12	11.744	13.185	68688	12	12.179	16.004
68393	9	1.064	4.527	68467	9	11.658	7.218	68541	10	5.394	10.028	68615	14	13.772	13.665	68689	9	14.440	16.348
68394	9	2.081	4.917	68468	10	13.995	7.499	68542	11	5.772	10.743	68616	14	14.342	13.111	68690	10	14.563	16.488
68395	11	4.686	4.985	68469	9	16.058	7.931	68543	7	10.956	10.578	68617	13	16.408	13.049	68691*	16	15.893	16.395
68396	10	4.694	4.278	68470	12	18.448	7.144	68544	13	12.807	10.077	68618	10	16.459	13.643	68692	20	17.174	16.937
68397	10	5.681	4.791	68471*	13	19.632	7.761	68545	8	13.622	10.754	68619	11	19.447	13.896	68693	14	17.204	16.613
68398	8	9.791	4.311	68472	9	19.896	7.558	68546	9	13.666	10.450	68620	14	24.845	13.930	68694*	24	17.829	16.931
68399	9	9.949	4.832	68473	14	20.148	7.719	68547	10	13.707	10.789	68621	11	25.098	13.168	68695	9	18.214	16.813
68400	8	11.015	4.732	68474	13	20.399	7.793	68548	8	13.813	10.509	68622	13	25.189	13.601	68696	10	19.045	16.928
68401*	23	11.316	4.807	68475	7	21.525	7.250	68549	9	15.748	10.633	68623	12	0.047	14.091	68697	12	24.567	16.673
68402	8	11.996	4.978	68476	12	21.606	7.633	68550	20	16.481	10.226	68624	9	1.655	14.664	68698	10	24.754	16.175
68403*	51	13.481	4.586	68477	9	21.862	7.068	68551	14	17.146	10.080	68625	10	2.250	14.854	68699	16	25.349	16.726
68404	12	14.776	4.826	68478	10	23.402	7.655	68552	9	17.662	10.815	68626	8	3.975	14.977	68700	20	0.264	17.101
68405	9	15.007	4.627	68479	9	23.578	7.922	68553	8	20.867	10.187	68627	9	5.397	14.165	68701	12	0.572	17.823
68406	12	17.764	4.406	68480	11	24.220	7.324	68554	9	21.022	10.218	68628*	50	6.058	14.336	68702	11	2.541	17.857
68407	9	18.121	4.297	68481	12	24.293	7.669	68555*	31	22.261	10.351	68629	10	6.783	14.604	68703	8	2.670	17.725
68408	8	20.009	4.396	68482*	21	24.507	7.010	68556*	18	22.456	10.315	68630	9	8.022	14.426	68704	12	2.921	17.508
68409	9	20.200	4.218	68483*	13	24.524	7.212	68557	9	23.502	10.052	68631	8	8.998	14.403	68705	12	4.654	17.599
68410	11	21.077	4.646	68484	10	24.907	7.209	68558	13	24.250	10.978	68632*	32	9.533	14.024	68706	10	5.999	17.563
68411	13	24.647																	

68718	8	22°583	17°596	68792	9	22°235	20°678	68866*	20	11°282	24°459	69013	12	22°365	0°998	69087	5	19°858	4°679
68719	12	23°873	17°488	68793	9	24°711	20°359	68867	9	11°306	24°202	69014	17	0°476	1°453	69088	11	21°461	4°774
68720	27	0°843	18°446	68794	8	25°012	20°024	68868	9	11°748	24°318	69015	4	2°486	1°319	69089*	14	21°847	4°515
68721	13	1°566	18°977	68795	20	25°394	20°038	68869	11	11°940	24°701	69016	8	3°786	1°297	69090	4	22°204	4°831
68722	9	3°684	18°212	68796	10	0°244	21°674	68870	9	12°247	24°519	69017	13	4°309	1°252	69091	13	22°834	4°655
68723	7	4°050	18°874	68797	13	0°805	21°082	68871	10	12°721	24°421	69018*	14	9°844	1°406	69092	4	23°857	4°268
68724	8	5°719	18°306	68798	12	1°191	21°150	68872	10	12°886	24°512	69019	12	10°411	1°153	69093	23	24°028	4°085
68725	8	5°797	18°017	68799*	34	5°160	21°786	68873	9	14°247	24°761	69020	8	10°588	1°197	69094	4	24°544	4°287
68726	7	8°866	18°952	68800	8	5°826	21°620	68874	8	14°598	24°006	69021*	26	13°268	1°510	69095	5	24°706	4°089
68727	9	8°894	18°115	68801*	40	7°597	21°847	68875	11	14°958	24°877	69022	20	14°390	1°988	69096	22	25°205	4°351
68728	10	9°506	18°850	68802*	22	8°392	21°440	68876	10	14°981	24°974	69023	4	14°444	1°224	69097	18	25°289	4°615
68729	14	10°151	18°495	68803	14	8°844	21°729	68877	9	15°203	24°657	69024	4	15°085	1°759	69098	12	0°871	5°766
68730	9	10°177	18°441	68804	8	8°953	21°626	68878	18	16°028	24°580	69025	13	16°237	1°306	69099	6	4°604	5°280
68731	8	10°225	18°955	68805	24	9°026	21°339	68879	10	16°132	24°536	69026	7	17°614	1°107	69100	5	5°578	5°982
68732	9	10°573	18°552	68806	8	10°402	21°461	68880	11	17°377	24°618	69027	11	17°661	1°992	69101	13	11°252	5°788
68733	7	10°973	18°934	68807	9	13°870	21°795	68881	10	17°832	24°177	69028	13	19°927	1°904	69102	11	11°433	5°715
68734	8	11°750	18°126	68808	20	14°085	21°521	68882	9	19°398	24°353	69029	9	20°431	1°602	69103	4	11°954	5°343
68735	10	13°214	18°345	68809	9	14°841	21°521	68883	15	24°640	24°800	69030	13	22°016	1°925	69104	10	12°449	5°965
68736	8	15°457	18°751	68810	8	16°679	21°231	68884	12	2°550	25°034	69031	6	23°023	1°715	69105	14	13°866	5°216
68737	14	16°726	18°944	68811	9	17°351	21°877	68885	20	4°573	25°913	69032	5	23°231	1°873	69106	5	15°121	5°636
68738	9	22°399	18°679	68812	11	19°261	21°781	68886	13	5°489	25°205	69033	7	4°286	2°682	69107	8	15°785	5°031
68739	11	22°425	18°017	68813	8	19°458	21°322	68887	12	6°296	25°534	69034	12	4°899	2°571	69108	6	17°362	5°811
68740	19	22°618	18°238	68814	7	19°698	21°648	68888	8	6°525	25°795	69035	6	5°613	2°731	69109	6	17°395	5°993
68741	8	23°104	18°820	68815	11	24°852	21°413	68889	9	7°849	25°083	69036	10	6°633	2°806	69110	5	18°717	5°789
68742	10	0°887	19°147	68816	10	25°225	21°190	68890*	47	8°704	25°875	69037*	20	7°762	2°136	69111	12	21°084	5°256
68743	9	1°812	19°067	68817	12	25°774	21°441	68891	20	9°559	25°808	69038	12	8°459	2°853	69112	17	22°347	5°461
68744*	31	2°067	19°871	68818	58	0°296	22°211	68892*	20	10°260	25°514	69039*	23	9°784	2°086	69113	7	23°444	5°780
68745	21	2°436	19°173	68819	12	1°305	22°716	68893	9	10°835	25°015	69040*	26	12°045	2°457	69114	21	0°045	6°924
68746	9	2°556	19°314	68820*	22	2°893	22°541	68894	8	13°336	25°558	69041	7	12°284	2°694	69115	7	2°293	6°129
68747	12	5°895	19°756	68821	9	3°743	22°748	68895	13	17°288	25°104	69042	13	13°231	2°563	69116	11	3°109	6°052
68748	7	7°256	19°058	68822	12	6°574	22°114	68896	11	18°169	25°972	69043	12	13°933	2°677	69117	34	4°680	6°588
68749	8	7°573	19°906	68823	16	7°248	22°530	68897	18	18°918	25°204	69044	14	14°361	2°004	69118	5	6°376	6°095
68750	15	8°316	19°817	68824	8	7°603	22°584	68898	12	20°294	25°716	69045	6	14°802	2°664	69119	8	7°605	6°334
68751	9	9°077	19°535	68825	9	7°609	22°208	68899	10	20°625	25°889	69046	5	14°845	2°273	69120	11	7°774	6°317
68752	10	9°728	19°642	68826	8	8°226	22°446	68900	8	20°798	25°981	69047	6	15°559	2°950	69121	15	7°994	6°888
68753	9	9°830	19°674	68827	14	8°816	22°809	68901	10	21°583	25°034	69048	5	16°015	2°049	69122*	17	8°028	6°896
68754	12	11°042	19°722	68828	14	9°948	22°497	68902	22	21°669	25°520	69049	6	16°405	2°680	69123	4	8°094	6°785
68755	11	12°254	19°397	68829	10	12°425	22°932	68903*	44	23°387	25°083	69050	6	17°002	2°958	69124	5	8°922	6°712
68756	10	13°164	19°626	68830	10	15°339	22°072	68904	10	23°987	25°328	69051	7	19°576	2°998	69125	11	9°461	6°254
68757	8	13°184	19°792	68831	8	15°490	22°893					69052	6	19°605	2°063	69126	5	11°440	6°078
68758	25	14°274	19°353	68832	7	16°213	22°240					69053*	25	21°343	2°989	69127	4	11°651	6°417
68759	10	14°315	19°605	68833	8	17°450	22°391					69054	13	2°461	3°219	69128	10	13°307	6°123
68760	7	16°162	19°279	68834	11	21°680	22°253					69055	12	2°880	3°160	69129	7	14°114	6°419
68761	8	16°735	19°078	68835*	34	23°651	22°069					69056	6	5°501	3°256	69130	11	16°350	6°785
68762	9	17°573	19°982	68836	18	0°373	23°877					69057	15	6°232	3°625	69131	8	17°526	6°933
68763	8	17°668	19°522	68837	14	0°979	23°839					69058	9	7°268	3°279	69132	8	18°443	6°064
68764	8	18°318	19°611	68838	12	2°560	23°421					69059	4	8°314	3°924	69133	19	19°060	6°533
68765	10	18°584	19°168	68839	10	3°932	23°045					69060*	18	8°823	3°932	69134	11	20°856	6°765
68766	9	19°867	19°757	68840	12	4°648	23°879					69061	10	10°226	3°069	69135	7	21°142	6°940
68767	12	19°956	19°460	68841	13	4°737	23°334					69062	11	10°325	3°426	69136	13	21°760	6°442
68768	10	20°275	19°600	68842	12	4°769	23°529					69063	8	10°632	3°587	69137	7	22°046	6°575
68769	8	20°352	19°300	68843	11	4°887	23°923					69064	16	13°553	3°217	69138	11	22°448	6°480
68770	9	23°723	19°996	68844	10	5°841	23°774					69065	17	14°002	3°860	69139	7	22°689	6°509
68771	20	23°822	19°102	68845	20	5°867	23°648					69066	5	14°066	3°878	69140	9	24°146	6°057
68772	11	24°692	19°013	68846	12	6°029	23°842					69067*	29	15°775	3°688	69141	4	24°564	6°896
68773	14	0°276	20°909	68847	11	6°378	23°611					69068	4	17°311	3°831	69142	12	0°066	7°124
68774	12	0°902	20°516	68848	14	7°626	23°474					69069	4	19°657	3°789	69143	9	0°446	7°115
68775	12	0°925	20°791	68849	12	8°319	23°864					69070	6	21°005	3°184	69144	7	0°505	7°415
68776	9	4°201	20°375	68850	10	9°129	23°828					69071	8	22°800	3°769	69145	12	1°854	7°221
68777	8	6°858	20°355	68851*	26	9°884	23°552					69072	7	24°164	3°346	69146	4	1°882	7°189
68778	14	7°319	20°434	68852	8	11°379	23°205					69073	18	24°975	3°584	69147	8	4°928	7°369
68779	8	8°935	20°758	68853	9	14°057	23°725					69074	11	0°137	4°441	69148	12	5°771	7°552
68780	11	9°433	20°442	68854	10	16°840	23°137					69075	10	3°055	4°087	69149*	17	8°133	7°801
68781	14	11°302	20°893	68855	11	17°770	23°595					69076	9	3°911	4°321	69150	9	10°046	7°442
68782*	20	11°512	20°892	68856	8	17°838	23°343					69077	19	10°234	4°479	69151*	22	10°277	7°628
68783	12	11°980	20°464	68857	12	21°156	23°735					69078	11	12°650	4°627	69152	4	10°461	7°810
68784	8	12°759	20°795</																

69161	23	21°556	7°093	69235	8	25°437	10°266	69309	6	9°913	15°737	69383	6	18°509	18°611	69457	4	21°645	21°055
69162	7	21°570	7°520	69236	9	0°648	11°129	69310	5	10°698	15°539	69384	7	19°988	18°024	69458	8	23°118	21°679
69163	9	21°789	7°139	69237	12	1°399	11°420	69311	10	11°795	15°154	69385	21	21°663	18°517	69459	13	23°792	21°052
69164	12	22°134	7°394	69238	13	2°229	11°683	69312	14	12°015	15°842	69386*	41	22°535	18°837	69460	12	23°989	21°689
69165	7	22°069	7°891	69239	12	2°823	11°201	69313	15	12°553	15°272	69387	6	22°617	18°140	69461*	14	24°090	21°297
69166	12	24°154	7°487	69240	12	6°837	11°115	69314	5	15°222	15°183	69388	17	23°805	18°084	69462	6	24°382	21°620
69167	4	25°123	7°354	69241	11	7°497	11°130	69315	16	18°940	15°811	69389	9	24°191	18°592	69463	5	24°418	21°823
69168	7	25°401	7°813	69242	16	8°057	11°097	69316	10	20°124	15°506	69390	11	25°923	18°378	69464	5	25°097	21°881
69169	23	0°254	8°988	69243	10	8°277	11°734	69317	4	20°421	15°488	69391	17	1°171	19°930	69465	12	25°648	21°033
69170	12	4°362	8°908	69244	7	9°043	11°114	69318	9	23°508	15°782	69392	11	4°543	19°236	69466	4	25°726	21°834
69171	11	7°128	8°604	69245	6	11°834	11°717	69319	15	24°686	15°383	69393	5	5°857	19°665	69467	6	25°854	21°745
69172*	13	8°724	8°118	69246	5	12°127	11°398	69320	8	24°839	15°509	69394	9	7°091	19°663	69468	17	3°281	22°386
69173	12	8°855	8°811	69247	4	12°586	11°966	69321	12	25°324	15°883	69395	12	7°776	19°619	69469	9	4°660	22°487
69174	16	9°292	8°429	69248	5	14°224	11°046	69322	9	25°673	15°736	69396	21	9°002	19°451	69470	14	4°787	22°608
69175	4	9°727	8°798	69249	11	14°902	11°388	69323	11	0°288	16°582	69397	10	9°971	19°297	69471	13	5°820	22°268
69176	13	11°671	8°025	69250	21	15°345	11°820	69324	4	0°461	16°079	69398	10	10°130	19°152	69472	9	6°735	22°073
69177	6	12°162	8°711	69251	13	16°973	11°958	69325	15	1°066	16°622	69399	11	10°156	19°514	69473	5	9°689	22°871
69178	4	14°554	8°586	69252	8	17°260	11°167	69326	6	4°909	16°212	69400*	14	14°544	19°729	69474	14	11°707	22°968
69179	14	16°893	8°212	69253	16	19°451	11°240	69327	10	5°102	16°957	69401	6	14°678	19°455	69475	4	14°052	22°053
69180	4	18°458	8°396	69254	7	21°396	11°242	69328	11	5°511	16°572	69402	7	15°337	19°554	69476	7	17°790	22°901
69181	12	20°806	8°986	69255	7	22°284	11°388	69329	9	5°527	16°566	69403	8	15°550	19°626	69477	13	18°382	22°498
69182*	22	20°973	8°232	69256	12	22°307	11°881	69330	14	5°618	16°549	69404	4	15°771	19°231	69478	7	20°164	22°949
69183	13	24°175	8°795	69257	14	24°036	11°457	69331	14	5°654	16°444	69405	5	16°424	19°043	69479	16	22°229	22°620
69184	8	25°067	8°532	69258	10	24°767	11°286	69332	4	6°182	16°275	69406	11	18°358	19°979	69480	4	22°698	22°495
69185	9	25°339	8°414	69259*	43	25°954	11°812	69333	6	7°256	16°481	69407	6	18°746	19°039	69481	10	23°721	22°976
69186	13	25°740	8°786	69260	10	3°196	12°941	69334	7	7°581	16°770	69408	10	19°958	19°166	69482	14	23°866	22°615
69187*	31	3°002	9°651	69261	12	5°773	12°814	69335	4	10°987	16°965	69409	5	20°666	19°912	69483	10	0°003	23°413
69188	16	3°479	9°599	69262*	14	7°869	12°628	69336	16	12°408	16°300	69410	7	20°727	19°860	69484	12	3°453	23°236
69189	4	3°506	9°507	69263	5	8°694	12°243	69337	9	15°163	16°722	69411	15	20°950	19°083	69485	17	5°155	23°133
69190	4	4°732	9°738	69264	8	9°446	12°013	69338	13	16°136	16°097	69412	10	22°580	19°804	69486	16	9°255	23°143
69191	7	4°913	9°316	69265	5	9°582	12°099	69339	5	19°378	16°528	69413	13	22°718	19°523	69487	10	9°985	23°399
69192*	21	4°938	9°591	69266*	21	10°540	12°541	69340	14	20°915	16°843	69414*	20	22°809	19°328	69488	13	11°249	23°604
69193*	23	5°000	9°567	69267	13	11°296	12°463	69341	9	22°723	16°087	69415	7	22°990	19°806	69489	24	11°500	23°381
69194*	21	6°469	9°637	69268	6	11°315	12°894	69342*	15	22°774	16°272	69416	9	25°601	19°322	69490	13	11°913	23°834
69195	9	6°940	9°219	69269*	50	14°583	12°759	69343	7	23°379	16°539	69417*	16	25°721	19°684	69491	8	12°610	23°937
69196	11	7°642	9°556	69270	7	15°947	12°953	69344*	12	23°762	16°253	69418	11	3°176	20°491	69492	7	13°064	23°792
69197	4	9°238	9°364	69271	4	17°511	12°307	69345	5	24°969	16°336	69419	9	4°114	20°699	69493	6	13°066	23°777
69198	15	9°504	9°413	69272	5	18°126	12°729	69346	6	25°007	16°112	69420	7	6°015	20°771	69494	13	14°102	23°676
69199	5	10°581	9°919	69273	10	21°811	12°620	69347	5	25°212	16°059	69421	13	10°472	20°206	69495	8	14°796	23°104
69200	4	12°346	9°608	69274	10	24°784	12°925	69348	13	25°996	16°336	69422	12	12°432	20°885	69496	11	15°854	23°435
69201	13	13°149	9°241	69275	14	0°121	13°997	69349	10	4°095	17°458	69423	6	13°433	20°449	69497	12	22°093	23°049
69202	14	13°975	9°332	69276	11	0°510	13°835	69350	4	5°230	17°193	69424	6	13°611	20°996	69498	9	22°178	23°414
69203	7	15°169	9°274	69277	12	2°382	13°331	69351	12	5°699	17°874	69425*	30	14°899	20°951	69499	14	22°267	23°302
69204	21	16°275	9°220	69278	11	2°985	13°839	69352	4	5°789	17°823	69426*	6	16°611	20°514	69500	13	23°411	23°232
69205	11	17°041	9°114	69279	12	7°051	13°037	69353	14	6°984	17°018	69427*	30	16°844	20°350	69501	12	0°507	24°708
69206*	31	17°588	9°112	69280	6	8°515	13°178	69354	17	8°623	17°659	69428	4	17°919	20°629	69502	9	5°103	24°517
69207	7	17°959	9°964	69281	18	10°987	13°915	69355	5	8°642	17°918	69429	5	18°401	20°396	69503	8	5°369	24°171
69208*	33	18°410	9°371	69282	7	11°353	13°180	69356	4	9°757	17°585	69430	4	20°084	20°357	69504	10	5°461	24°597
69209	10	20°330	9°760	69283	4	12°175	13°149	69357	18	10°905	17°783	69431	11	20°569	20°622	69505	21	7°783	24°694
69210	10	22°053	9°974	69284	5	12°458	13°386	69358	4	15°218	17°091	69432	4	21°314	20°763	69506	4	10°109	24°513
69211	14	23°970	9°277	69285	5	12°767	13°835	69359	12	15°852	17°981	69433	12	21°612	20°017	69507	5	12°251	24°531
69212	7	0°907	10°124	69286	23	13°261	13°971	69360*	12	17°452	17°494	69434	16	21°788	20°068	69508	13	12°393	24°588
69213	10	1°183	10°291	69287	8	19°603	13°104	69361	12	18°719	17°892	69435	8	22°603	20°667	69509	11	13°600	24°361
69214*	93	1°896	10°702	69288	9	20°098	13°682	69362	9	18°912	17°454	69436	5	24°671	20°799	69510	8	14°011	24°234
69215	15	2°087	10°552	69289	6	23°163	13°817	69363	10	19°503	17°729	69437	4	1°032	21°084	69511	9	15°300	24°709
69216	6	3°562	10°793	69290	15	23°376	13°386	69364	8	21°256	17°511	69438	10	1°583	21°327	69512	5	15°569	24°867
69217	11	9°739	10°429	69291	12	0°470	14°182	69365	5	23°209	17°127	69439*	26	2°942	21°034	69513*	18	17°616	24°156
69218	8	9°890	10°230	69292	12	1°027	14°260	69366	12	23°333	17°744	69440*	22	3°275	21°209	69514	23	19°086	24°015
69219*	21	10°974	10°327	69293	6	4°802	14°480	69367	6	23°370	17°061	69441	6	4°115	21°311	69515	11	19°492	24°946
69220	14	12°225	10°046	69294	18	7°471	14°422	69368	8	23°559	17°350	69442	16	4°333	21°228	69516	12	21°080	24°542
69221	11	14°096	10°758	69295*	38	11°173	14°818	69369	10	25°242	17°642	69443	11	5°151	21°784	69517	6	21°354	24°507
69222	4	14°581	10°030	69296	9	11°266	14°709	69370	13	25°414	17°742	69444	4	5°269	21°181	69518	11	21°931	24°653
69223	6	14°716	10°554	69297	12	11°988	14°778	69371	6	1°865	18°880	69445	7</						

69531*	17	15°52'	25°57'	69645	24	24°38'	1°14'	69719*	28	21°14'	5°37'	69793	4	11°97'	9°04'	69867	11	23°29'	12°03'
69532	6	15°56'	25°39'	69646	10	25°06'	1°05'	69720	4	0°23'	6°24'	69794	5	13°55'	9°06'	69868*	34	23°32'	12°87'
69533	14	16°37'	25°09'	69647	13	25°76'	1°54'	69721	12	2°44'	6°05'	69795	12	13°19'	9°18'	69869	7	25°93'	12°47'
69534	13	20°44'	25°58'	69648	7	3°06'	2°91'	69722	11	3°06'	6°49'	69796	7	15°75'	9°05'	69870	7	0°98'	13°10'
69535*	21	21°97'	25°32'	69649	9	4°11'	2°50'	69723	6	3°23'	6°59'	69797	8	19°71'	9°89'	69871	19	3°25'	13°20'
69536	7	23°15'	25°89'	69650	16	7°20'	2°69'	69724	7	4°28'	6°49'	69798	6	22°20'	9°98'	69872	5	4°88'	13°55'
69537	14	23°46'	25°68'	69651	14	7°66'	2°19'	69725*	25	4°72'	6°55'	69799	12	23°39'	9°17'	69873	7	5°14'	13°87'
				69652	11	8°25'	2°62'	69726	5	5°06'	6°48'	69800*	13	23°75'	9°80'	69874	9	6°42'	13°09'
				69653	11	10°25'	2°18'	69727*	20	6°16'	6°77'	69801	14	24°48'	9°38'	69875	12	8°08'	13°10'
				69654	4	10°33'	2°68'	69728	16	6°78'	6°39'	69802	4	25°19'	9°13'	69876	4	10°66'	13°78'
				69655	9	10°38'	2°05'	69729	13	7°80'	6°02'	69803	10	25°38'	9°63'	69877	4	13°58'	13°49'
				69656	11	10°62'	2°27'	69730	10	8°09'	6°79'	69804	8	0°46'	10°90'	69878	12	14°04'	13°55'
				69657	8	11°89'	2°64'	69731	11	9°69'	6°45'	69805	5	1°59'	10°43'	69879	8	14°75'	13°87'
				69658	7	12°52'	2°41'	69732	10	15°79'	6°85'	69806	8	3°63'	10°49'	69880	15	15°50'	13°47'
				69659	7	13°47'	2°80'	69733	7	18°40'	6°36'	69807	11	3°76'	10°00'	69881*	29	18°56'	13°59'
				69660	4	14°95'	2°72'	69734	6	20°23'	6°81'	69808	9	5°43'	10°67'	69882	6	19°44'	13°92'
				69661	5	16°65'	2°78'	69735	13	20°76'	6°53'	69809	4	5°97'	10°71'	69883	7	19°50'	13°78'
				69662	12	16°96'	2°02'	69736	10	0°26'	7°67'	69810	11	6°77'	10°89'	69884	11	24°76'	13°52'
				69663	7	18°46'	2°50'	69737	4	0°65'	7°07'	69811	9	9°80'	10°90'	69885	10	25°23'	13°67'
				69664*	19	19°15'	2°16'	69738	6	1°18'	7°97'	69812*	16	10°86'	10°28'	69886	5	25°82'	13°54'
				69665	5	19°81'	2°56'	69739	13	3°37'	7°48'	69813*	32	11°01'	10°60'	69887	13	1°54'	14°41'
				69666	4	20°12'	2°09'	69740	14	4°26'	7°13'	69814	7	13°50'	10°69'	69888	17	3°37'	14°61'
				69667	4	21°19'	2°84'	69741	5	6°22'	7°48'	69815	4	13°81'	10°17'	69889	6	3°54'	14°33'
				69668	4	22°31'	2°16'	69742	5	7°23'	7°13'	69816	4	14°06'	10°83'	69890	14	5°44'	14°28'
				69669	12	22°83'	2°66'	69743	7	8°27'	7°86'	69817	11	15°74'	10°09'	69891	10	6°06'	14°30'
				69670*	17	23°82'	2°80'	69744	7	8°44'	7°12'	69818	6	15°89'	10°78'	69892*	18	10°93'	14°19'
				69671	10	24°80'	2°58'	69745	11	9°19'	7°50'	69819	6	16°20'	10°15'	69893	4	11°47'	14°86'
				69672	5	25°33'	2°01'	69746*	21	13°94'	7°54'	69820	10	17°46'	10°74'	69894*	9	12°49'	14°90'
				69673	4	0°20'	3°53'	69747	7	14°20'	7°53'	69821	16	17°52'	10°39'	69895	7	12°73'	14°08'
				69674	14	1°01'	3°75'	69748	5	14°75'	7°56'	69822	12	19°41'	10°74'	69896	7	12°75'	14°99'
				69675	13	2°56'	3°09'	69749	6	16°39'	7°47'	69823*	34	19°68'	10°96'	69897	4	13°40'	14°33'
				69676	10	2°68'	3°73'	69750	8	17°82'	7°82'	69824	10	20°18'	10°44'	69898	13	13°48'	14°48'
				69677	11	3°81'	3°11'	69751	6	18°33'	7°18'	69825	10	21°15'	10°56'	69899	6	14°45'	14°87'
				69678*	21	10°64'	3°96'	69752	14	19°16'	7°17'	69826	13	21°20'	10°97'	69900	6	17°50'	14°50'
				69679	5	11°95'	3°82'	69753	11	19°81'	7°03'	69827	12	22°40'	10°39'	69901	6	17°72'	14°40'
				69680	13	12°19'	3°47'	69754	8	21°51'	7°42'	69828	9	22°49'	10°02'	69902	7	18°52'	14°91'
				69681	13	13°53'	3°29'	69755	6	21°53'	7°57'	69829	5	24°39'	10°23'	69903	6	18°68'	14°39'
				69682*	19	14°45'	3°39'	69756	4	23°03'	7°55'	69830	12	0°21'	11°64'	69904	10	19°19'	14°15'
				69683*	12	14°90'	3°52'	69757	6	23°85'	7°57'	69831	9	0°94'	11°46'	69905	5	19°64'	14°80'
				69684	5	17°95'	3°67'	69758	4	24°71'	7°80'	69832	5	1°22'	11°04'	69906	6	20°08'	14°59'
				69685*	43	18°44'	3°85'	69759	10	25°28'	7°41'	69833*	43	2°14'	11°96'	69907	11	20°99'	14°79'
				69686*	16	18°44'	3°47'	69760	10	0°31'	8°92'	69834	10	2°18'	11°63'	69908	6	21°55'	14°97'
				69687	9	19°45'	3°99'	69761	7	1°19'	8°70'	69835	9	2°41'	11°49'	69909	11	24°78'	14°01'
				69688	11	19°55'	3°60'	69762	6	1°46'	8°58'	69836	8	2°59'	11°28'	69910	4	24°81'	14°42'
				69689	14	21°21'	3°33'	69763	12	1°87'	8°94'	69837	6	2°92'	11°65'	69911	5	24°88'	14°64'
				69690	8	22°17'	3°62'	69764*	38	2°84'	8°42'	69838	4	4°18'	11°96'	69912	6	25°79'	14°10'
				69691	10	25°37'	3°07'	69765	5	2°91'	8°15'	69839	5	6°17'	11°51'	69913	14	0°93'	15°55'
				69692	19	0°07'	4°27'	69766	10	3°62'	8°31'	69840	5	10°12'	11°08'	69914	8	1°09'	15°68'
				69693	4	0°60'	4°46'	69767	12	4°09'	8°62'	69841	4	11°41'	11°84'	69915	12	1°57'	15°74'
				69694	4	0°75'	4°26'	69768	5	5°89'	8°15'	69842	13	13°13'	11°94'	69916	7	1°93'	15°89'
				69695	20	1°26'	4°52'	69769	5	8°38'	8°56'	69843	9	14°93'	11°63'	69917	4	3°78'	15°36'
				69696	15	1°35'	4°78'	69770	7	8°91'	8°38'	69844	13	15°38'	11°59'	69918	12	4°77'	15°85'
				69697	4	5°40'	4°71'	69771	4	9°88'	8°98'	69845	8	15°94'	11°01'	69919	11	5°05'	15°95'
				69698	14	6°04'	4°92'	69772	7	10°39'	8°79'	69846	12	16°77'	11°12'	69920	6	6°25'	15°82'
				69699	7	6°64'	4°44'	69773	10	11°14'	8°93'	69847	11	17°82'	11°27'	69921	10	6°26'	15°92'
				69700	4	10°80'	4°21'	69774	5	11°41'	8°77'	69848	18	19°10'	11°03'	69922	9	6°27'	15°92'
				69701	8	12°08'	4°68'	69775	11	11°67'	8°72'	69849	4	20°30'	11°34'	69923	4	6°28'	15°85'
				69702	7	12°21'	4°53'	69776	6	13°47'	8°62'	69850	4	20°67'	11°15'	69924	5	7°22'	15°32'
				69703	12	15°02'	4°98'	69777	9	14°48'	8°68'	69851	5	22°52'	11°64'	69925	9	8°05'	15°72'
				69704	5	18°10'	4°91'	69778	13	14°69'	8°53'	69852	4	23°90'	11°29'	69926	11	8°23'	15°38'
				69705	13	20°57'	4°21'	69779	5	15°47'	8°91'	69853*	20	2°96'	12°94'	69927	5	9°39'	15°05'
				69706	14	25°10'	4°01'	69780	13	16°24'	8°43'	69854	21	3°88'	12°85'	69928	7	18°63'	15°39'
				69707	5	5°24'	5°19'	69781	4	17°63'	8°03'	69855*	21	8°68'	12°67'	69929	10	19°11'	15°42'
				69708	4	7°47'	5°72'	69782	7	18°53'	8°02'	69856	4	8°75'	12°97'	69930	4	20°38'	15°90'
				69709	4	7°48'	5°67'	69783	4	22°11'	8°72'	69857	13	9°03'	12°12'	69931	6	23°41'	15°84'
				69710	9	8°81'	5°68'	69784	4	23°98'	8°40'	69858	11	12°04'	12°17'	69932*	16	24°98'	15°28'
				69711	5	9°19'	5°20'	69785*	25	24°77'	8°45'	69859	7	12°25'	12°96'	69933	11	0°02'	16°44'
				69712	5	9°39'	5°21'	69786*	14	24°80'	8°16'	69860	10	17°60'	12°47'	69934	4	1°27'	16°28'
				69713*	20	10°34'	5°86'	69787	12	0°11'	9°46'	69861	11	19°25'	12°54'	69935	5	1°47'	16°22'
				69714	13	14°61'	5°09'	69788	6	2°72'	9°64'	69862	6	19°29'	12°51'	69936	12	2°63'	16°48'
				69715	5	14°92'	5°19'	69789	5	3°21'	9°75'	69863	10	19°06'	12°57'	69937	6	2°39'	16°70'
				69716	4	15°36'	5°42'	69790	8	4°19'	9°23'	69864	20	20°01'	12°21'	69938	8	3°94'	16°42'
				69717	5	16°29'	5°05'	69791	4	8°84'	9°06'	69865	9	21°13'	12°65'	69939	8	4°59'	16°12'
				69718	7	18°17'	5°20'	69792	4	11°40'	9°64'	69866	8	22°65'					

69941	5	6.224	16.663	70015	5	7.707	19.136	70089	7	0.105	23.170	70257*	39	13.406	2.632
69942	4	6.240	16.424	70016	4	8.750	19.185	70090	7	3.858	23.793	70258	15	13.538	2.672
69943	5	7.689	16.403	70017	13	11.079	19.766	70091	6	4.991	23.306	70259	4	14.555	2.096
69944	14	8.156	16.933	70018	4	12.962	19.260	70092	6	5.127	23.297	70260	11	14.793	2.139
69945	12	8.191	16.398	70019	11	15.110	19.923	70093	11	5.698	23.359	70261	13	16.086	2.449
69946	7	8.540	16.987	70020	15	15.661	19.688	70094	13	6.832	23.400	70262	11	16.226	2.665
69947	4	11.166	16.520	70021	11	16.804	19.367	70095	4	6.930	23.412	70263	9	16.465	2.267
69948	5	12.715	16.242	70022	12	17.566	19.426	70096	7	9.210	23.117	70264	11	16.795	2.251
69949	13	17.976	16.940	70023	8	17.757	19.323	70097	7	10.331	23.052	70265	7	16.864	2.288
69950	12	18.236	16.757	70024	9	19.104	19.846	70098	5	12.428	23.591	70266	9	18.690	2.841
69951	7	20.488	16.560	70025	8	19.820	19.949	70099	13	13.880	23.925	70267	8	19.126	2.219
69952	5	20.983	16.864	70026	14	20.549	19.104	70100	10	14.728	23.118	70268	5	21.191	2.976
69953*	18	21.510	16.369	70027	10	22.070	19.195	70101	5	16.485	23.340	70269	10	21.740	2.186
69954	8	21.553	16.771	70028	22	22.089	19.976	70102	14	17.639	23.496	70270	7	22.844	2.199
69955	5	23.960	16.961	70029	11	24.737	19.565	70103	4	19.390	23.510	70271	10	1.276	3.270
69956	14	24.481	16.647	70030	6	4.361	20.706	70104	10	20.500	23.012	70272	5	4.638	3.315
69957*	24	24.966	16.836	70031	5	5.211	20.312	70105	5	20.734	23.861	70273	8	5.723	3.138
69958	9	25.757	16.694	70032*	30	11.240	20.120	70106	5	22.056	23.573	70274	13	7.462	3.477
69959	10	1.528	17.809	70033	10	12.823	20.985	70107	4	24.713	23.622	70275	9	11.335	3.265
69960	12	1.704	17.905	70034	6	15.922	20.320	70108*	31	25.254	23.328	70276	14	12.471	3.905
69961	4	2.522	17.907	70035	9	17.377	20.619	70109*	23	4.261	24.910	70277	11	14.234	3.408
69962	5	3.089	17.261	70036	6	17.435	20.525	70110	8	4.455	24.970	70278	7	17.406	3.456
69963	4	3.940	17.636	70037	5	17.688	20.041	70111	11	6.271	24.271	70279	5	18.818	3.629
69964	13	4.037	17.104	70038	4	18.751	20.065	70112	4	8.513	24.354	70280	12	20.706	3.833
69965	11	6.145	17.599	70039*	22	21.548	20.287	70113	4	8.665	24.213	70281	8	23.021	3.495
69966*	22	8.380	17.528	70040	15	21.882	20.905	70114	4	9.266	24.321	70282	7	25.302	3.856
69967	15	9.629	17.700	70041	13	22.664	20.630	70115	8	10.701	24.725	70283	14	1.022	4.210
69968	20	11.368	17.379	70042	4	23.176	20.035	70116*	22	12.140	24.834	70284	16	2.991	4.803
69969	5	11.750	17.525	70043	8	25.619	20.294	70117	4	12.521	24.522	70285	9	3.666	4.059
69970	6	11.878	17.521	70044	12	0.140	21.245	70118	12	12.970	24.420	70286	11	4.140	4.327
69971*	26	12.107	17.906	70045	11	0.348	21.878	70119*	26	13.889	24.056	70287	9	5.529	4.310
69972	5	12.609	17.361	70046*	13	0.442	21.484	70120	8	14.769	24.640	70288	20	7.058	4.098
69973	25	14.225	17.835	70047	9	1.995	21.193	70121	4	16.708	24.855	70289	11	9.740	4.820
69974	10	14.394	17.387	70048	4	2.091	21.991	70122	4	17.509	24.780	70290	10	10.956	4.695
69975	13	14.828	17.445	70049	4	2.216	21.900	70123	13	19.773	24.251	70291	10	11.558	4.433
69976	10	15.460	17.127	70050	6	6.495	21.497	70124	5	20.790	24.360	70292	12	13.781	4.104
69977*	22	16.156	17.691	70051	6	7.040	21.368	70125	4	22.647	24.668	70293	5	14.420	4.389
69978	4	17.261	17.790	70052	13	7.288	21.034	70126	6	25.131	24.596	70294	4	16.604	4.211
69979	9	20.716	17.982	70053*	23	7.612	21.370	70127	4	2.946	25.052	70295	6	16.771	4.540
69980	8	21.021	17.911	70054*	28	8.706	21.365	70128	4	4.082	25.559	70296	14	18.182	4.983
69981	25	22.235	17.640	70055	7	9.035	21.630	70129	9	5.215	25.610	70297	6	18.487	4.258
69982	9	23.905	17.483	70056	4	10.444	21.782	70130*	59	5.364	25.105	70298	7	3.439	5.859
69983	5	24.825	17.628	70057	4	10.485	21.396	70131	8	6.985	25.390	70299	17	5.158	5.822
69984	15	0.100	18.277	70058	12	11.796	21.634	70132	4	8.810	25.165	70300	5	6.182	5.180
69985	8	0.498	18.775	70059	10	11.959	21.290	70133	6	8.953	25.754	70301	5	6.759	5.665
69986	9	2.225	18.532	70060	5	12.200	21.224	70134	5	10.261	25.626	70302	7	7.554	5.595
69987	7	4.289	18.731	70061	11	13.486	21.660	70135*	35	10.713	25.595	70303	14	8.244	5.394
69988	10	4.451	18.555	70062	12	15.408	21.521	70136	8	10.881	25.419	70304	10	9.415	5.730
69989	5	6.173	18.041	70063	4	17.634	21.951	70137	7	13.070	25.372	70305	9	10.551	5.296
69990	5	7.075	18.260	70064	5	18.000	21.894	70138	12	13.471	25.865	70306	12	10.585	5.604
69991	5	7.431	18.545	70065	13	21.672	21.284	70139*	31	13.711	25.429	70307	5	11.213	5.362
69992	7	8.332	18.673	70066	10	22.798	21.453	70140	4	15.578	25.435	70308	7	17.442	5.537
69993	13	9.303	18.181	70067	13	23.069	21.186	70141	15	16.168	25.831	70309*	29	17.854	5.396
69994	10	12.419	18.970	70068*	12	24.640	21.773	70142	4	16.455	25.269	70310	13	18.010	5.923
69995	14	13.465	18.572	70069	12	25.519	21.390	70143	5	16.923	25.587	70311	17	20.398	5.082
69996	4	15.270	18.296	70070	12	0.241	22.805	70144	10	17.135	25.670	70312	11	21.203	5.961
69997	12	17.746	18.029	70071	4	0.779	22.005	70145*	17	18.039	25.501	70313	10	21.930	5.704
69998	10	18.560	18.495	70072	5	1.466	22.046	70146	8	19.719	25.860	70314	16	23.596	5.090
69999	8	19.684	18.436	70073	6	5.456	22.022	70147	10	19.750	25.089	70315	14	25.232	5.955
70000	14	20.509	18.256	70074	7	7.764	22.041	70148	5	21.452	25.219	70316	4	3.907	6.318
70001	4	23.439	18.913	70075	4	7.950	22.547	70149	14	23.326	25.561	70317	13	4.040	6.328
70002*	20	23.629	18.152	70076	5	9.566	22.461	70150	7	23.327	25.496	70318	11	4.424	6.402
70003	7	23.766	18.715	70077	11	11.112	22.372	70151	6	25.339	25.530	70319	7	5.212	6.383
70004	9	24.025	18.534	70078	8	11.263	22.801	70152	5	25.611	25.217	70320	5	6.053	6.552
70005	5	24.221	18.815	70079	14	14.625	22.115					70321	6	9.587	6.936
70006*	16	25.144	18.555	70080	9	15.443	22.203					70322	10	11.097	6.555
70007	7	1.919	19.484	70081	7	16.012	22.183					70323*	60	11.194	6.308
70008*	14	2.045	19.841	70082	5	16.746	22.850					70324	6	13.512	6.619
70009	7	2.776	19.306	70083	12	17.990	22.215					70325	9	15.213	6.731
70010	9	2.885	19.768	70084	4	18.943	22.993					70326	6	19.052	6.935
70011	14	4.675	19.653	70085	18	21.094	22.959					70327	10	22.024	6.226
70012	4	5.791	19.604	70086	10	22.829	22.260					70328	19	24.191	6.626
70013*	15	6.574	19.496	70087	5	24.864	22.711					70329	7	24.948	6.085
70014	7	6.630	19.882	70088	6	25.382	22.351					70330	8	24.951	6.681

R.A. 22^h 39^m

Plate 2568; 1907 July 16.

Provisional Constants.

A	B	C
-0.00038	+0.00881	+1.650

D	E	F
-0.00936	-0.00040	-1.674

Mag. = 15.6 - 1.25√d

No.	d	x	y
70201	12	0.699	0.592
70202	9	0.802	0.178
70203	7	0.901	0.250
70204	8	3.602	0.714
70205	12	3.996	0.732
70206	10	7.428	0.883
70207	5	9.488	0.849
70208	11	9.557	0.664
70209	13	9.920	0.83
70210	11	11.049	0.305
70211	5	12.037	0.894
70212	7	13.653	0.140
70213	8	13.969	0.508
70214	7	14.523	0.510
70215	10	15.906	0.321
70216	4	16.845	0.177
70217	5	17.297	0.228
70218	7	20.528	0.907
70219	12	21.106	0.320
70220	4	21.974	0.115
70221	7	23.849	0.181
70222	7	23.997	0.800
70223	14	25.161	0.692
70224	22	0.238	1.357
70225	7	0.664	1.173
70226	10	0.923	1.257
70227	14	1.629	1.730
70228	13	3.693	1.645
70229	4	4.531	1.732
70230	4	5.001	1.842
70231	6	8.074	1.977
70232	14	10.087	1.883
70233	7	10.268	1.380
70234	11	12.267	1.196
70235*	30	14.276	1.571
70236	5	14.712	1.927
70237	9	14.804	1.536
70238	15	16.005	1.270
70239	12	17.054	1.253
70240	4	17.472	1.055
70241	21	18.304	1.498
70242	4	18.683	1.230
70243*	23	19.380	1.079
70244	6	22.316	1.255
70245*	23	23.121	1.325
70246	10	0.694	2.790
70247	10	2.556	2.336
70248	5	2.993	2.735
70249	11	3.626	2.710
70250	12	3.702	2.927
70251	4	4.808	2.779
70252	8	5.804	2.758
70253	13	8.551	2.253
70254	5	8.733	2.371
70255	14	9.731	2.379
70256*	29	9.798	2.099

70331	9	1278	7607	70405	5	3024	11366	70479	4	4105	15548	70553	7	19862	18069	70627	11	6433	22536
70332	7	5258	7167	70406	6	3948	11430	70480	13	6400	15069	70554	5	21771	18961	70628*	26	6995	22149
70333*	24	7859	7194	70407	11	4719	11318	70481	4	6987	15939	70555	7	22480	18292	70629	10	7402	22521
70334	9	8780	7746	70408	9	6884	11669	70482*	27	7056	15208	70556	14	23050	18550	70630	18	7769	22677
70335	7	8929	7715	70409	13	7018	11569	70483	4	7180	15565	70557	17	23352	18005	70631	13	7840	22299
70336	5	9237	7949	70410	6	7132	11242	70484	6	7671	15768	70558	7	23994	18823	70632*	85	8267	22182
70337	23	9286	7749	70411	12	10741	11281	70485	4	9044	15883	70559	9	25473	18562	70633	15	9607	22369
70338	10	12445	7273	70412	7	13508	11278	70486	17	11853	15209	70560	10	1004	19773	70634	10	11274	22573
70339	8	15693	7327	70413	4	13906	11557	70487	10	12561	15667	70561	14	2599	19183	70635	8	11422	22019
70340	14	16766	7451	70414	10	15330	11099	70488	10	14359	15600	70562	7	3883	19221	70636	4	12192	22250
70341	11	17083	7234	70415	5	18406	11561	70489	15	15632	15325	70563	11	6800	19385	70637	6	12319	22416
70342*	29	17820	7570	70416	4	21258	11488	70490	10	17950	15212	70564	9	8886	19552	70638	14	12608	22566
70343	4	18979	7766	70417	4	23081	11320	70491	10	18474	15560	70565	6	10381	19124	70639	17	12688	22712
70344	5	20602	7699	70418	8	2047	12659	70492	13	19790	15365	70566	8	12113	19085	70640	6	13553	22351
70345	7	21397	7089	70419	13	4056	12440	70493	17	21499	15592	70567	12	12975	19132	70641	7	16763	22396
70346	12	22608	7421	70420	10	4502	12875	70494	8	22162	15099	70568	6	13110	19168	70642	10	16863	22653
70347	16	23688	7665	70421	16	6330	12945	70495*	37	25985	15044	70569	11	13462	19149	70643	9	16927	22758
70348*	38	25864	7782	70422	9	6904	12153	70496	15	0681	16859	70570	5	14110	19258	70644	5	17168	22783
70349*	26	0799	8666	70423	11	9277	12301	70497	10	1959	16878	70571	8	14847	19199	70645	11	17619	22717
70350*	14	0815	8367	70424	13	9381	12033	70498	7	3082	16870	70572	13	18245	19473	70646	13	17862	22555
70351	4	1301	8983	70425	22	11634	12857	70499	12	3704	16477	70573	12	19430	19066	70647	12	19158	22245
70352*	20	3691	8881	70426	4	13737	12059	70500	7	5255	16661	70574	8	20605	19867	70648	11	19191	22055
70353	9	3785	8284	70427	6	16583	12084	70501	15	5685	16608	70575	12	21931	19080	70649	13	20781	22966
70354	9	4210	8061	70428	10	17840	12632	70502	10	5757	16618	70576	5	23830	19524	70650	4	22498	22132
70355	7	5646	8543	70429*	35	21668	12567	70503	9	7194	16632	70577	18	25619	19660	70651	5	24226	22109
70356*	26	11258	8326	70430	12	23835	12620	70504	15	8209	16556	70578	19	25796	19303	70652	4	1069	23830
70357	5	12155	8114	70431	9	24012	12448	70505	10	11437	16245	70579	9	1900	20481	70653*	33	1603	23519
70358	9	13581	8672	70432	11	0899	13731	70506	7	15902	16838	70580	8	2285	20457	70654	12	5186	23989
70359	9	14798	8796	70433	11	1388	13870	70507	11	16106	16885	70581	5	4060	20532	70655	9	7068	23557
70360	10	17115	8197	70434	5	1959	13729	70508	16	16871	16479	70582	4	4164	20297	70656	11	7722	23519
70361	5	18684	8259	70435	9	3341	13888	70509	9	17725	16452	70583	8	4659	20263	70657	13	8512	23323
70362	5	20170	8190	70436	8	3499	13909	70510	13	19006	16181	70584	12	6435	20780	70658	9	11259	23035
70363	6	22747	8396	70437	6	5138	13426	70511	9	21262	16073	70585	7	6520	20878	70659	10	11710	23164
70364	12	22919	8927	70438	12	5231	13914	70512	10	22373	16880	70586	9	7237	20976	70660	12	16070	23911
70365	11	23976	8853	70439	13	5941	13091	70513	11	23401	16057	70587	4	8927	20263	70661	8	16735	23961
70366	14	0522	9598	70440	20	6026	13991	70514	4	23487	16249	70588	7	13264	20999	70662	6	17254	23270
70367	4	1227	9327	70441	5	8376	13098	70515	4	24245	16222	70589	15	13783	20060	70663	10	17303	23719
70368	10	1430	9826	70442	12	9475	13070	70516	11	24807	16626	70590	6	15345	20828	70664*	31	18680	23092
70369*	50	4603	9110	70443	15	9571	13311	70517	12	25456	16852	70591	5	15465	20167	70665	15	18799	23958
70370	7	5085	9639	70444	17	13471	13127	70518	6	25639	16806	70592	4	15611	20842	70666	14	20496	23981
70371	12	7565	9015	70445	7	16365	13881	70519	9	0126	17710	70593	11	16354	20004	70667	8	20547	23379
70372	5	8687	9859	70446	4	17118	13370	70520	5	0169	17185	70594	8	16419	20171	70668	21	20583	23574
70373	10	10169	9550	70447	6	19545	13985	70521*	24	1171	17037	70595	10	19170	20871	70669	5	21567	23097
70374	7	12816	9169	70448*	17	20040	13957	70522*	27	4323	17422	70596	15	22152	20528	70670	9	24335	23196
70375	10	13602	9926	70449	5	22329	13428	70523	21	4670	17715	70597	14	25253	20169	70671	5	1512	24794
70376	11	14935	9395	70450	12	23578	13340	70524	11	6303	17672	70598*	13	0955	21980	70672	6	2911	24313
70377	11	15112	9191	70451	8	24600	13958	70525	13	6729	17115	70599	12	18226	21578	70673*	14	5232	24659
70378	10	15377	9055	70452	15	24909	13690	70526	5	6915	17875	70600	11	3090	21172	70674	4	6910	24372
70379	12	16225	9694	70453	12	0930	14216	70527	16	8599	17989	70601	11	3657	21496	70675	8	7866	24708
70380	5	17965	9385	70454	7	1939	14291	70528	7	9700	17132	70602	8	5630	21036	70676	4	11419	24694
70381	15	20560	9324	70455	19	2913	14340	70529	13	9814	17263	70603	4	5924	21055	70677	4	12866	24436
70382	4	21156	9168	70456	12	3883	14581	70530*	15	9975	17864	70604	4	6710	21971	70678	11	14304	24095
70383	11	22024	9709	70457	10	4095	14517	70531	8	11627	17191	70605	12	7895	21388	70679	8	14900	24654
70384*	30	22964	9439	70458	9	4493	14048	70532	13	13916	17157	70606	10	8289	21051	70680	5	17647	24366
70385	18	23581	9991	70459	7	6088	14165	70533	5	14563	17570	70607	5	9340	21277	70681	14	17915	24642
70386	10	23862	9351	70460	10	7140	14910	70534	11	18063	17444	70608	4	9956	21240	70682	14	18629	24279
70387	12	25156	9971	70461	11	8221	14678	70535	8	18965	17467	70609	6	10301	21143	70683	13	20205	24521
70388	6	0451	10443	70462	6	8941	14369	70536	9	21127	17332	70610*	49	13990	21726	70684	13	22236	24085
70389	14	2314	10414	70463	15	10407	14277	70537	11	22840	17864	70611	9	14326	21915	70685	4	22334	24637
70390	7	3679	10966	70464	8	10901	14298	70538	6	23152	17966	70612	7	14781	21877	70686	5	23897	24588
70391	12	4942	10349	70465	17	11225	14117	70539	5	0015	18943	70613	8	16375	21610	70687	7	25020	24456
70392	7	5330	10642	70466*	30	14471	14467	70540	8	0270	18758	70614	10	16488	21973	70688	6	0737	25726
70393	5	8969	10406	70467	8	14871	14893	70541*	17	1386	18753	70615	7	17277	21316	70689	5	1999	25403
70394	4	10442	10388	70468	16	19121	14413	70542	11	5607	18711	70616	7	17369	21560	70690	4	4215	25024
70395	6	11320	10179	70469*	15	19275	14364	70543	9	7902	18824	70617	20	19032	21484	70691	5	5342	25281
70396	7	11608	10348	70470	12	19780	14176	70544	14	8341	18450	70618	19	20330	21800	70692	5	5383	25215
70397	9	19271	10154	70471	11</														

70701	9	19°011	25°234	70844	10	8°803	3°457	70918	11	16°596	8°723	70992	10	15°061	13°873	71066	20	13°386	18°949
70702	4	19°764	25°003	70845	8	12°338	3°493	70919	10	18°744	8°937	70993	8	15°249	13°584	71067	7	16°600	18°850
70703	5	20°164	25°475	70846	8	14°144	3°699	70920	9	20°414	8°744	70994	6	15°599	13°328	71068	8	18°424	18°319
70704	4	23°157	25°280	70847	10	14°416	3°982	70921	8	21°021	8°836	70995	18	17°884	13°293	71069	9	20°628	18°849
70705	15	23°480	25°990	70848	9	14°455	3°737	70922	11	21°310	8°701	70996	9	21°417	13°102	71070	10	22°125	18°592
70706	22	24°652	25°529	70849*	15	14°626	3°378	70923	9	21°675	8°095	70997	10	24°986	13°260	71071	19	23°822	18°857
70707	18	25°156	25°865	70850	12	17°409	3°230	70924	11	23°719	8°152	70998	11	0°174	14°514	71072	30	24°935	18°384
70708	14	25°769	25°056	70851	11	21°328	3°943	70925	10	25°061	8°882	70999	22	0°485	14°239	71073	22	1°457	19°887
				70852	10	7°830	4°105	70926	12	3°326	9°537	71000	7	0°668	14°756	71074	11	2°377	19°853
				70853	9	9°337	4°481	70927	10	5°719	9°534	71001	11	3°708	14°902	71075	10	4°221	19°406
				70854	8	10°896	4°054	70928	9	6°168	9°806	71002	19	3°956	14°184	71076	10	4°972	19°383
				70855	10	11°282	4°970	70929	8	7°445	9°747	71003	12	6°956	14°779	71077	8	5°572	19°174
				70856*	20	16°978	4°435	70930	12	9°820	9°671	71004	7	7°320	14°482	71078	11	6°146	19°937
				70857	19	17°670	4°090	70931	9	10°170	9°668	71005	8	7°632	14°083	71079	7	7°099	19°176
				70858	12	18°349	4°447	70932	10	11°762	9°096	71006	10	9°340	14°420	71080	8	9°911	19°768
				70859	10	20°755	4°938	70933	9	12°479	9°921	71007	8	9°358	14°555	71081	9	12°355	19°836
				70860	11	22°265	4°725	70934	8	12°681	9°629	71008	9	12°689	14°426	71082	8	16°627	19°309
				70861	16	3°276	5°886	70935	9	16°939	9°557	71009	8	13°204	14°617	71083	11	16°637	19°283
				70862	14	4°131	5°096	70936	10	17°401	9°405	71010*	32	15°557	14°217	71084	10	21°316	19°828
				70863	8	7°807	5°902	70937	8	17°716	9°447	71011	10	17°056	14°291	71085	9	24°464	19°950
				70864	10	7°910	5°982	70938	11	18°834	9°089	71012	11	18°620	14°153	71086	21	0°922	20°766
				70865	12	11°625	5°645	70939	9	19°776	9°646	71013	12	19°941	14°925	71087	22	1°285	20°251
				70866	8	12°413	5°169	70940	8	21°748	9°452	71014	10	20°826	14°686	71088	8	2°873	20°414
				70867	12	14°650	5°641	70941	16	0°678	10°489	71015	16	24°914	14°254	71089	9	6°040	20°893
				70868	12	16°499	5°634	70942*	19	2°317	10°405	71016	30	1°436	15°142	71090	14	6°534	20°660
				70869	11	17°957	5°271	70943	10	3°975	10°575	71017*	41	1°591	15°596	71091	10	7°722	20°115
				70870	13	18°069	5°406	70944	11	5°008	10°095	71018	21	2°308	15°484	71092	9	8°745	20°089
				70871	9	18°143	5°968	70945	9	5°211	10°848	71019	12	5°830	15°681	71093	22	12°734	20°241
				70872	24	25°544	5°414	70946	8	6°970	10°139	71020	18	6°236	15°615	71094	8	13°581	20°805
				70873	21	0°701	6°437	70947	9	7°429	10°226	71021	12	6°853	15°365	71095	14	14°529	20°124
				70874	12	4°028	6°596	70948	10	10°294	10°908	71022	8	9°194	15°800	71096	11	17°440	20°220
				70875	8	9°134	6°878	70949	11	11°265	10°090	71023	7	11°720	15°153	71097	16	19°488	20°796
				70876*	30	9°328	6°689	70950	19	11°809	10°477	71024	12	12°572	15°839	71098	10	4°665	21°649
				70877	8	14°139	6°182	70951	10	15°738	10°627	71025	8	19°050	15°563	71099	9	4°692	21°655
				70878*	14	16°000	6°588	70952	8	16°137	10°956	71026	8	19°336	15°597	71100	10	5°320	21°092
				70879*	38	16°542	6°835	70953	20	17°010	10°586	71027	9	23°636	15°602	71101	9	5°940	21°091
				70880	13	16°582	6°793	70954	7	20°628	10°984	71028*	18	25°306	15°804	71102	10	6°736	21°734
				70881*	38	18°495	6°723	70955	9	21°006	10°102	71029	10	6°269	16°994	71103*	34	8°881	21°612
				70882	13	19°668	6°456	70956*	16	24°813	10°674	71030	10	8°266	16°455	71104	10	8°940	21°627
				70883	11	19°776	6°725	70957	16	1°803	11°071	71031	8	8°695	16°427	71105	15	9°056	21°360
				70884	8	21°050	6°947	70958*	20	2°037	11°977	71032	16	8°829	16°436	71106	9	10°202	21°564
				70885	20	24°221	6°649	70959	8	7°275	11°750	71033	11	10°821	16°362	71107	10	10°718	21°517
				70886	19	24°820	6°063	70960	8	8°699	11°207	71034	10	11°135	16°492	71108	8	10°744	21°469
				70887*	29	24°838	6°128	70961	8	9°065	11°407	71035	8	13°364	16°390	71109	10	11°393	21°697
				70888*	34	25°517	6°155	70962	7	9°517	11°062	71036	10	15°131	16°204	71110	12	11°956	21°334
				70889	22	1°951	7°006	70963	9	12°203	11°936	71037	13	15°193	16°907	71111	10	13°447	21°046
				70890	17	2°989	7°435	70964	6	13°094	11°919	71038	11	15°894	16°841	71112	10	14°570	21°586
				70891	15	3°650	7°015	70965	12	13°667	11°154	71039	10	16°508	16°360	71113	9	15°129	21°371
				70892	9	7°644	7°564	70966	10	13°799	11°522	71040	9	16°566	16°126	71114	12	16°831	21°570
				70893	11	8°581	7°282	70967	8	16°573	11°464	71041	12	17°735	16°594	71115	9	16°964	21°808
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				70895	9	9°384	7°946	70969	8	19°703	11°793	71043	11	19°794	16°852	71117	10	20°040	21°987
				70896	8	10°287	7°201	70970	8	20°750	11°234	71044	12	23°579	16°456	71118*	26	22°317	21°500
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				70898	7	11°652	7°258	70972	12	6°034	12°480	71046	12	1°083	17°421	71120	14	3°315	22°297
				70899	8	11°968	7°485	70973	10	7°583	12°139	71047	9	5°185	17°490	71121	10	4°460	22°147
				70900	10	12°109	7°907	70974	11	7°784	12°045	71048	10	7°712	17°211	71122*	34	5°779	22°191
				70901	9	15°728	7°215	70975	9	11°178	12°634	71049	8	7°734	17°208	71123	15	6°446	22°920
				70902	8	16°606	7°757	70976	11	12°149	12°263	71050	9	9°408	17°145	71124	8	7°984	22°619
				70903	9	16°820	7°011	70977	12	13°011	12°717	71051	7	12°711	17°466	71125	9	12°655	22°325
				70904	8	18°576	7°802	70978	8	18°504	12°739	71052	16	16°379	17°564	71126	7	12°714	22°956
				70905	12	19°839	7°741	70979	9	21°139	12°052	71053	12	16°594	17°153	71127	8	13°750	22°956
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				70907	11	22°043	7°506	70981	21	22°546	12°157	71055	14	22°074	17°399	71129	10	19°116	22°110
				70908	12	23°150	7°043	70982	11	24°541	12°387	71056	10	22°640	17°388	71130	11	20°465	22°016
				70909*	46	1°364	8°274	70983	23	24°607	12°570	71057	8	22°950	17°110	71131*	22	22°727	22°077
				70910	7	1°587	8°924	70984	19	25°014	12°555	71058	11	1°699	18°113	71132*	36	24°461	22°620
				70911	10	3°393	8°137	70985	13	1°672	13°578	71059	16	2°401	18°846	71133	11	6°343	23°404
				70912	7	6°508	8°699	70986	12	2°330	13°706	71060	9	3°825	18°486	71134	12	8°373	23°273
				70913	8	7°076	8°995	70987	10										

71140*	28	17°655	23°044	71224*	31	4°905	3°593	71298	7	6°497	9°274	71372	10	20°635	13°845	71446	8	25°846	18°126
71141	20	17°935	23°596	71225	6	14°082	3°246	71299*	18	9°588	9°465	71373	10	21°042	13°967	71447	6	2°280	19°072
71142	16	20°486	23°891	71226	9	20°344	3°625	71300	6	12°074	9°215	71374	5	21°930	13°112	71448*	16	4°914	19°547
71143	38	25°743	23°349	71227	10	1°877	4°889	71301	8	12°259	9°172	71375	5	22°280	13°473	71449	8	8°615	19°507
71144	12	3°114	24°317	71228	14	5°366	4°105	71302	7	12°976	9°395	71376	8	23°806	13°781	71450	13	10°585	19°420
71145	16	4°411	24°986	71229	15	7°362	4°400	71303	6	13°352	9°862	71377	14	0°714	14°383	71451	16	12°951	19°185
71146	20	4°431	24°514	71230	12	9°355	4°491	71304*	18	14°255	9°204	71378	5	3°466	14°383	71452	7	14°929	19°411
71147	10	8°000	24°443	71231	7	10°171	4°780	71305	6	18°470	9°246	71379	10	6°950	14°946	71453	5	20°545	19°302
71148	13	10°200	24°934	71232*	20	10°806	4°013	71306	8	21°225	9°925	71380	8	7°234	14°666	71454*	22	25°164	19°193
71149	11	10°775	24°727	71233	6	13°487	4°901	71307	6	24°604	9°005	71381	6	8°988	14°141	71455	6	0°370	20°087
71150*	32	12°995	24°083	71234	7	15°433	4°269	71308*	10	0°546	10°805	71382	5	10°756	14°965	71456*	25	3°454	20°805
71151	8	14°914	24°287	71235*	24	19°145	4°283	71309	5	0°766	10°854	71383	6	10°924	14°775	71457	5	3°665	20°814
71152	12	15°427	24°322	71236	6	24°494	4°529	71310	5	1°358	10°484	71384	6	13°286	14°574	71458	6	4°198	20°244
71153	10	18°039	24°994	71237	13	1°179	5°530	71311	8	1°905	10°291	71385	5	13°890	14°526	71459	6	5°366	20°910
71154	24	23°164	24°793	71238	6	9°470	5°203	71312	12	10°236	10°830	71386	11	13°975	14°696	71460	7	9°607	20°344
71155	28	24°536	24°125	71239	7	10°055	5°879	71313	5	12°494	10°436	71387	9	15°274	14°969	71461	7	10°312	20°444
71156	35	1°511	25°689	71240	11	14°280	5°814	71314	7	12°606	10°757	71388	10	16°260	14°914	71462	6	12°645	20°921
71157	14	5°825	25°192	71241*	15	15°907	5°755	71315	5	13°388	10°104	71389	6	18°944	14°480	71463	10	12°927	20°456
71158	14	7°300	25°248	71242*	14	17°544	5°613	71316	10	14°339	10°055	71390	13	22°006	14°707	71464	12	17°223	20°105
71159*	21	8°953	25°122	71243	9	18°905	5°669	71317*	11	18°854	10°943	71391*	12	1°135	15°925	71465	7	17°609	20°976
71160	10	9°905	25°010	71244	12	20°114	5°575	71318*	25	21°621	10°531	71392	6	2°858	15°617	71466	7	17°754	20°404
71161*	18	11°322	25°871	71245	13	22°132	5°290	71319*	13	22°790	10°508	71393	8	3°575	15°158	71467	15	18°825	20°725
71162	10	14°471	25°381	71246	5	23°515	5°128	71320	7	24°353	10°405	71394	9	4°814	15°232	71468	6	19°326	20°594
71163	8	15°290	25°079	71247*	14	0°486	6°260	71321	6	25°019	10°580	71395	7	5°576	15°978	71469	10	20°774	20°155
71164	13	17°479	25°664	71248*	20	1°166	6°274	71322	8	25°366	10°896	71396	14	5°863	15°754	71470	8	20°909	20°052
71165	12	17°875	25°938	71249	6	1°945	6°694	71323	7	1°834	11°615	71397	5	6°115	15°317	71471	7	21°270	20°999
71166	22	18°891	25°775	71250	7	2°736	6°071	71324	10	2°555	11°040	71398	5	6°168	15°081	71472	7	22°549	20°816
71167	28	22°029	25°599	71251	9	3°276	6°635	71325	6	2°686	11°647	71399	7	6°847	15°542	71473	6	2°517	21°442
				71252	10	3°815	6°682	71326	6	4°146	11°557	71400	13	7°665	15°681	71474	7	12°086	21°134
				71253	10	8°786	6°333	71327	10	4°906	11°645	71401	6	9°055	15°131	71475	12	13°736	21°455
				71254	11	10°744	6°314	71328	8	5°648	11°425	71402	12	9°845	15°715	71476*	29	14°935	21°138
				71255	9	10°955	6°140	71329	7	5°808	11°605	71403*	30	11°444	15°094	71477	9	16°686	21°247
				71256	6	11°580	6°046	71330	6	6°459	11°766	71404	6	12°427	15°865	71478	6	19°509	21°815
				71257	5	11°965	6°196	71331	5	7°628	11°384	71405	7	12°515	15°506	71479	7	19°685	21°705
				71258	6	16°156	6°895	71332	6	8°964	11°839	71406	7	13°844	15°581	71480	16	19°797	21°015
				71259	5	19°098	6°562	71333	12	9°803	11°116	71407	10	16°650	15°029	71481*	19	0°417	22°754
				71260	6	19°834	6°891	71334	7	11°778	11°614	71408	9	18°077	15°076	71482	7	0°896	22°115
				71261	7	25°795	6°905	71335	14	12°525	11°161	71409	7	20°446	15°157	71483*	10	5°359	22°306
				71262	6	1°763	7°931	71336*	12	18°615	11°766	71410	6	21°242	15°907	71484	7	5°419	22°609
				71263*	20	2°745	7°627	71337	5	18°745	11°496	71411	20	21°302	15°763	71485	6	6°956	22°269
				71264	5	12°116	7°735	71338	8	19°771	11°885	71412	5	22°874	15°992	71486	9	9°052	22°004
				71265	6	12°235	7°542	71339	12	20°079	11°334	71413	8	5°905	16°661	71487	7	9°977	22°692
				71266	18	12°373	7°215	71340	7	21°836	11°425	71414	9	7°223	16°578	71488	6	10°466	22°674
				71267	5	13°090	7°226	71341	18	25°331	11°185	71415	5	15°454	16°655	71489	7	11°145	22°345
				71268	7	14°233	7°707	71342	6	0°310	12°524	71416	9	16°314	16°749	71490	6	11°616	22°535
				71269	11	17°429	7°972	71343	13	0°376	12°705	71417	5	16°855	16°278	71491	6	13°353	22°023
				71270	5	17°534	7°208	71344	11	0°783	12°679	71418*	20	17°901	16°898	71492	5	18°362	22°416
				71271*	92	17°702	7°505	71345*	17	2°876	12°246	71419*	28	18°972	16°656	71493	20	22°486	22°226
				71272	14	18°558	7°400	71346	6	4°387	12°316	71420	15	19°543	16°904	71494	9	25°034	22°412
				71273	6	21°907	7°762	71347	7	4°468	12°344	71421	13	19°644	16°313	71495	16	1°712	23°457
				71274	11	23°316	7°735	71348	9	5°773	12°676	71422	10	19°861	16°551	71496	7	5°976	23°955
				71275	6	23°383	7°616	71349	13	8°695	12°925	71423	16	19°936	16°978	71497	8	9°963	23°607
				71276	5	0°110	8°796	71350	8	10°610	12°521	71424	5	20°754	16°674	71498	9	10°829	23°079
				71277	11	2°669	8°532	71351	5	11°711	12°962	71425	12	23°120	16°073	71499	9	12°346	23°433
				71278	5	2°796	8°945	71352	11	13°035	12°732	71426	14	6°170	17°485	71500*	20	12°584	23°994
				71279	10	2°953	8°904	71353	7	13°071	12°318	71427	6	9°842	17°895	71501*	31	13°755	23°454
				71280	8	5°680	8°167	71354	7	14°532	12°354	71428	7	12°198	17°111	71502	5	14°564	23°619
				71281*	14	7°620	8°305	71355	6	17°228	12°490	71429	6	13°101	17°035	71503*	13	14°885	23°185
				71282	9	9°441	8°997	71356	6	17°305	12°962	71430	20	22°766	17°788	71504	13	15°034	23°260
				71283	5	12°090	8°719	71357	5	19°038	12°674	71431	16	0°807	18°512	71505	5	19°926	23°834
				71284	5	15°928	8°565	71358*	16	20°156	12°355	71432	8	3°116	18°833	71506	8	23°945	23°748
				71285	6	15°965	8°128	71359	6	0°768	13°386	71433*	28	4°502	18°535	71507	12	25°634	23°410
				71286	7	16°727	8°969	71360	14	4°565	13°545	71434	6	4°855	18°466	71508	8	0°520	24°262
				71287	6	16°845	8°577	71361	9	4°592	13°827	71435	6	5°382	18°997	71509	11	5°015	24°195
				71288	5	16°904	8°909	71362	10	5°894	13°158	71436	15	7°875	18°684	71510	5	5°852	24°314
				71289	6	19°346	8°928	71363	9	6°387	13°755	71437	8	7°905	18°709	71511	14	6°031	24°972
				71290	5	19°635	8°444	71364	16	8°111	13°494	71438*	18	7°940	18°783	71512*	13	6°865	24°204
				71291*	28	21°304	8°992	71365	5	9°897	13°159								

71520	7	9°753	25°404
71521	6	11°125	25°627
71522	5	12°451	25°218
71523	12	15°014	25°386
71524	12	17°765	25°631
71525	7	20°220	25°163
71526	10	24°944	25°468
71527	10	25°526	25°469

R. A. 23^h 6^m

Plate 552; 1894 Nov. 16.

Provisional Constants.

A	B	C
+00768	+00492	-1222

D	E	F
-00489	+00787	-3088

Mag. = 13.8 - 1.02 √d

No.	d	x	y
71601	19	5°116	0°237
71602	10	8°722	0°759
71603	8	9°529	0°215
71604*	16	14°662	0°509
71605	10	17°756	0°338
71606	9	17°939	0°341
71607	19	19°575	0°180
71608	19	2°051	1°523
71609	10	8°231	1°585
71610	11	11°135	1°506
71611	10	11°215	1°654
71612	8	13°395	1°704
71613	6	12°121	2°827
71614	10	19°797	2°359
71615	7	23°888	2°100
71616*	20	3°936	3°966
71617	8	4°157	3°798
71618	7	4°804	3°352
71619	16	7°023	3°882
71620*	30	7°404	3°304
71621	12	9°560	3°132
71622	10	14°758	3°151
71623	10	17°720	3°538
71624	12	19°551	3°707
71625	9	19°696	3°635
71626	8	20°918	3°840
71627	8	24°805	3°847
71628	10	24°993	3°205
71629	18	17°184	4°440
71630	16	24°411	4°083
71631	13	24°843	4°185
71632	8	25°286	4°727
71633	11	7°995	5°201
71634	12	9°971	5°064
71635*	20	10°633	5°707
71636	10	13°764	5°808
71637	9	13°775	5°784
71638*	21	15°468	5°654
71639*	10	17°800	5°089
71640	9	19°124	5°740
71641	11	19°231	5°232
71642	10	21°768	5°114
71643	10	2°129	6°649

71644	10	3°808	6°930
71645	9	4°045	6°642
71646	12	7°319	6°313
71647	10	9°291	6°086
71648*	30	10°295	6°045
71649	12	20°693	6°858
71650	8	23°046	6°730
71651*	58	23°960	6°985
71652	8	6°703	7°797
71653	19	9°564	7°885
71654	8	17°075	7°517
71655	12	18°082	7°874
71656	9	18°560	7°749
71657	10	18°931	7°416
71658	10	3°852	8°588
71659	9	8°424	8°419
71660	8	17°336	8°946
71661	10	17°367	8°056
71662	8	21°008	8°685
71663	12	22°474	8°244
71664	8	22°516	8°623
71665	10	23°743	8°917
71666	9	23°926	8°133
71667	10	2°954	9°647
71668*	15	17°439	9°586
71669	10	18°576	9°937
71670	9	19°044	9°971
71671	12	21°050	9°733
71672	14	25°070	9°471
71673	7	0°747	10°169
71674	20	1°746	10°935
71675	10	1°776	10°644
71676	10	2°749	10°526
71677	16	2°776	10°870
71678	12	4°237	10°724
71679*	12	8°366	10°430
71680	10	10°908	10°101
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71682	20	19°641	10°200
71683	10	24°507	10°049
71684	12	5°538	11°514
71685	10	6°326	11°265
71686	10	16°413	11°214
71687	12	18°802	11°704
71688	9	24°096	11°176
71689	10	9°422	12°395
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71693	10	2°766	13°651
71694	8	3°292	13°889
71695*	12	8°918	13°290
71696*	20	10°644	13°029
71697*	25	11°137	13°012
71698*	10	15°671	13°804
71699*	15	17°904	13°114
71700	10	19°488	13°373
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71702*	28	20°798	13°115
71703	7	22°939	13°419
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71706	9	6°883	14°532
71707	8	9°579	14°778
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71710	8	22°132	14°243
71711	12	5°383	15°026
71712	8	12°954	15°017
71713	10	13°784	15°083
71714	11	15°966	15°433
71715	15	16°373	15°029
71716	7	16°980	15°987
71717	8	17°403	15°214

71718	10	21°309	15°927
71719	12	2°666	16°260
71720	10	13°982	16°340
71721	12	15°581	16°609
71722	7	16°981	16°330
71723*	30	0°486	17°937
71724*	18	1°684	17°989
71725	10	2°394	17°866
71726	11	3°591	17°238
71727*	19	13°382	17°616
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71729*	18	14°032	17°239
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71731	14	20°074	17°740
71732*	30	23°243	17°319
71733	21	0°137	18°541
71734*	20	1°726	18°943
71735	12	5°133	18°754
71736*	20	10°326	18°536
71737	11	12°438	18°702
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71739	14	4°137	19°324
71740	12	9°925	19°160
71741*	12	10°391	19°510
71742	10	12°764	19°129
71743	8	18°881	19°481
71744	8	19°605	19°044
71745*	20	20°745	19°040
71746	18	21°152	19°795
71747*	11	21°969	19°074
71748*	11	24°988	19°238
71749	14	25°615	19°112
71750*	49	6°813	20°267
71751	10	10°600	20°954
71752	10	11°631	20°105
71753	5	14°577	20°987
71754	12	15°435	20°375
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71756	15	22°170	20°955
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71758	9	8°428	21°317
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71761	10	10°891	21°638
71762	20	12°772	21°677
71763*	29	20°565	21°428
71764	8	21°008	21°681
71765	10	22°069	21°669
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71768	8	3°754	22°322
71769*	20	5°532	22°944
71770	10	8°175	22°334
71771	10	13°342	22°380
71772	11	13°660	22°582
71773	12	13°907	22°040
71774	14	14°016	22°036
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71777	16	2°277	23°151
71778*	18	3°339	23°320
71779	12	6°048	23°221
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71781	12	7°720	23°584
71782*	11	11°781	23°987
71783	9	18°869	23°778
71784*	50	18°964	23°578
71785	12	25°565	23°444
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71787*	11	13°083	24°215
71788	8	16°745	24°404
71789	11	17°079	24°455
71790	8	23°167	24°644
71791*	18	23°224	24°003

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71794	12	2°205	25°213
71795	11	4°956	25°177
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71800	10	14°568	25°013
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71802	11	16°675	25°463
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R. A. 23^h 15^m

Plate 553; 1894 Nov. 16.

Provisional Constants.

A	B	C
+00750	-00027	-3413

D	E	F
+00065	+00765	-2636

Mag. = 13.8 - 1.02 √d

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71922	8	9°785	2°901
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71947*	9	13°483	4°895
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71966*	24	15°431	7°043
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71989*	14	16°090	9°051
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72018	8	13°246	11°027	72092	8	12°323	21°780	72212*	32	4°845	2°508	72286	10	16°741	10°941	72360	11	16°443	18°011
72019*	22	14°612	11°585	72093	19	13°068	21°149	72213*	36	4°901	2°714	72287	9	18°443	10°900	72361	10	18°228	18°108
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72027	11	13°892	12°449	72101	8	5°281	22°604	72221*	13	4°436	3°476	72295	14	11°255	11°736	72369	8	19°214	19°615
72028	10	14°313	12°200	72102	12	6°543	22°435	72222	9	8°743	3°005	72296	9	15°419	11°542	72370	8	3°748	20°117
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72032*	24	5°797	13°608	72106	16	1°384	23°612	72226	8	13°206	3°305	72300	10	22°586	11°511	72374	11	8°451	20°005
72033	12	9°809	13°040	72107	9	3°241	23°309	72227	10	16°538	3°684	72301	8	2°714	12°044	72375	8	2°426	21°291
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72035	10	13°333	13°568	72109	8	6°627	23°300	72229	9	5°379	4°443	72303	12	11°773	12°184	72377	12	4°887	21°444
72036	8	14°291	13°609	72110	11	10°982	23°672	72230	8	6°081	4°416	72304	20	15°892	12°046	72378*	20	9°215	21°146
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72038	8	23°172	13°283	72112	8	15°243	23°407	72232	7	9°654	4°516	72306	10	19°780	12°711	72380	9	14°868	21°182
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72052	9	19°104	15°398	72126	12	3°781	25°100	72246	8	4°000	6°547	72320*	20	12°592	14°060	72394	12	1°381	23°040
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72075	8	17°541	18°281					72269	12	23°965	8°414	72343	12	22°789	16°766				
72076	12	21°241	18°212					72270	8	9°486	9°563	72344	9	22°847	16°177				
72077	11	23°140	18°154					72271*	14	12°084	9°455	72345	12	24°107	16°273				
72078	16	0°753	19°411					72272	12	13°298	9°407	72346	8	5°842					

R. A. 23^h 33^m

Plate 1481; 1900 Jan. 9.

Provisional Constants.

A	B	C
-00029	+00470	-2968

D	E	F
-00540	-00025	-3450

Mag. = 13.7 - 1.02 $\sqrt{d}$

No.	d	x	y
72501	6	2'434	0'658
72502	8	2'483	0'604
72503	5	3'104	0'069
72504	7	4'645	0'520
72505	20	4'965	0'167
72506	12	12'155	0'584
72507*	14	13'098	0'993
72508*	47	18'048	0'090
72509	11	0'716	1'695
72510	6	3'613	1'339
72511	13	4'956	1'941
72512	5	5'519	1'844
72513	15	19'211	1'695
72514	12	19'500	1'436
72515	6	22'298	1'876
72516	5	24'849	1'503
72517*	18	7'743	2'224
72518	8	8'935	2'254
72519	6	11'495	2'956
72520	5	12'476	2'976
72521	7	14'205	2'994
72522	10	18'507	2'545
72523	7	20'012	2'214
72524	5	24'039	2'446
72525	7	24'632	2'335
72526	5	7'086	3'512
72527	9	7'817	3'486
72528	8	10'674	3'477
72529	8	10'675	3'043
72530	13	5'185	4'985
72531	10	6'279	4'196
72532*	46	7'226	4'365
72533	11	10'279	4'431
72534	8	14'468	4'615
72535	6	19'607	4'077
72536*	34	19'838	4'621
72537	10	21'065	4'460
72538	6	21'391	4'374
72539*	25	0'315	5'447
72540	6	0'377	5'515
72541	6	0'538	5'339
72542*	35	3'356	5'656
72543	6	4'437	5'286
72544	11	14'006	5'365
72545	10	17'822	5'945
72546	6	18'059	5'812
72547	8	22'362	5'973
72548	7	23'175	5'133
72549	6	24'204	5'281
72550	11	24'575	5'203
72551	6	0'269	6'925
72552	12	3'285	6'256
72553	7	3'804	6'446
72554	7	4'348	6'894
72555*	28	6'072	6'247
72556	6	6'704	6'637

72557	10	8'756	6'016
72558	8	11'639	6'545
72559	8	12'624	6'482
72560*	22	17'166	6'214
72561	8	19'723	6'073
72562*	22	22'589	6'470
72563	10	25'477	6'467
72564	9	0'277	7'500
72565	16	7'789	7'775
72566	6	10'651	7'348
72567	6	16'835	7'489
72568	8	18'215	7'852
72569	11	18'564	7'127
72570	12	22'327	7'331
72571	10	5'782	8'175
72572	8	7'530	8'880
72573*	48	16'663	8'801
72574	10	20'247	8'693
72575	6	22'580	8'511
72576	10	6'344	9'145
72577	12	6'344	9'155
72578	10	9'795	9'854
72579	6	17'439	9'205
72580	9	21'815	9'294
72581*	26	24'145	9'679
72582	10	5'843	10'114
72583	10	6'136	10'358
72584	11	9'611	10'584
72585	6	10'528	10'416
72586*	15	10'595	10'244
72587	6	17'175	10'916
72588	14	23'566	10'036
72589	5	2'879	11'374
72590	5	4'325	11'815
72591	8	7'155	11'208
72592	12	12'616	11'830
72593	8	15'746	11'760
72594	7	23'025	11'113
72595	7	23'899	11'845
72596	6	7'313	12'439
72597	14	11'689	12'738
72598	7	11'943	12'664
72599	11	17'546	12'910
72600	8	21'787	12'845
72601	7	24'250	12'609
72602	7	24'278	12'951
72603	18	2'144	13'114
72604	5	2'415	13'682
72605	15	5'825	13'773
72606	7	12'350	13'615
72607	11	18'154	13'036
72608	11	20'213	13'107
72609	11	21'065	13'155
72610*	16	22'687	13'726
72611	5	23'053	13'826
72612	7	25'034	13'466
72613	18	25'945	13'633
72614	7	2'541	14'917
72615	6	2'896	14'700
72616	10	3'593	14'592
72617	8	10'977	14'626
72618	11	14'046	14'916
72619	5	17'197	14'268
72620*	28	24'483	14'577
72621	7	24'509	14'614
72622	10	7'293	15'083
72623*	6	8'484	15'677
72624	14	11'394	15'086
72625	7	15'036	15'695
72626*	7	17'247	15'043
72627*	19	21'177	15'302
72628	6	23'974	15'985
72629*	20	24'359	15'877
72630*	14	25'088	15'588

72631	6	25'293	15'763
72632*	14	25'425	15'993
72633	6	25'650	15'694
72634	10	0'195	16'054
72635	11	2'191	16'984
72636	6	3'879	16'792
72637	8	8'125	16'986
72638*	28	8'356	16'760
72639	7	11'305	16'147
72640	8	16'245	16'750
72641*	7	18'876	16'086
72642	8	19'869	16'814
72643	9	22'251	16'717
72644	8	7'426	17'772
72645	7	9'236	17'074
72646*	12	11'417	17'855
72647	9	13'731	17'703
72648	12	15'275	17'026
72649	10	22'307	17'746
72650	8	6'052	18'654
72651	7	12'875	18'366
72652	6	13'405	18'339
72653*	12	15'446	18'570
72654	5	20'085	18'850
72655	9	22'821	18'479
72656	8	4'925	19'107
72657	10	11'966	19'074
72658	5	14'174	19'833
72659	6	17'468	19'339
72660	10	20'434	19'707
72661*	14	3'855	20'440
72662	9	4'835	20'257
72663*	10	8'006	20'603
72664*	12	10'694	20'643
72665	7	11'185	20'400
72666	6	12'853	20'212
72667	10	13'254	20'402
72668	8	16'117	20'213
72669*	24	25'665	20'666
72670	6	25'785	20'831
72671*	12	0'735	21'986
72672	10	3'429	21'978
72673	6	8'154	21'027
72674	5	11'047	21'986
72675	6	15'775	21'065
72676*	9	0'654	22'407
72677	6	3'492	22'905
72678	6	4'581	22'984
72679	5	10'349	22'746
72680	16	11'391	22'114
72681	7	18'305	22'967
72682	5	19'415	22'403
72683	9	20'344	22'597
72684	5	20'645	22'782
72685	7	22'227	22'332
72686	6	4'925	23'916
72687	5	4'975	23'919
72688	9	7'234	23'856
72689	14	13'041	23'042
72690	8	13'694	23'361
72691	5	20'785	23'152
72692	5	2'415	24'235
72693	10	3'274	24'564
72694	6	9'306	24'446
72695	7	10'921	24'264
72696	6	12'960	24'705
72697	13	16'594	24'911
72698	8	19'625	24'030
72699*	30	25'345	24'254
72700	6	6'565	25'285
72701	8	15'186	25'309
72702	6	21'957	25'603

R. A. 23^h 42^m

Plate 2606; 1907 Oct. 12.

Provisional Constants.

A	B	C
-00043	+00509	+2520

D	E	F
-00498	-00016	-2320

Mag. = 15.7 - 1.25 $\sqrt{d}$

No.	d	x	y
72801	9	0'012	0'219
72802	7	2'791	0'417
72803	9	6'005	0'166
72804	7	6'170	0'455
72805	5	7'510	0'696
72806	9	12'482	0'673
72807	12	14'903	0'871
72808	5	15'503	0'203
72809	6	20'762	0'591
72810	6	24'590	0'734
72811	7	1'359	1'744
72812*	13	4'324	1'698
72813	13	4'734	1'636
72814	8	5'671	1'507
72815*	31	5'928	1'006
72816	12	7'275	1'911
72817	13	7'564	1'589
72818	11	11'558	1'102
72819	8	11'854	1'593
72820*	17	12'385	1'372
72821	9	13'085	1'385
72822	7	13'898	1'399
72823	5	14'130	1'231
72824*	19	14'466	1'950
72825	8	14'644	1'099
72826	12	15'066	1'984
72827*	21	15'089	1'450
72828	15	16'438	1'561
72829	7	18'061	1'221
72830	5	19'030	1'680
72831	13	21'016	1'562
72832	31	22'009	1'030
72833*	22	23'229	1'779
72834	8	23'671	1'250
72835	6	0'573	2'701
72836	5	0'760	2'261
72837	11	1'164	2'581
72838	7	3'488	2'783
72839*	23	4'858	2'635
72840	8	5'790	2'144
72841	7	7'609	2'573
72842	9	8'921	2'722
72843	9	10'676	2'339
72844	22	10'960	2'641
72845	11	13'123	2'396
72846	9	13'279	2'130
72847*	43	16'340	2'639
72848	22	17'612	2'888
72849	13	18'485	2'259
72850	9	18'551	2'203
72851*	30	19'230	2'192
72852*	53	20'675	2'183
72853	19	21'111	2'344
72854*	21	22'700	2'121
72855	10	3'764	3'335
72856	5	4'126	3'548

72857	6	4'791	3'647
72858	4	5'598	3'269
72859	12	6'772	3'740
72860	23	8'131	3'805
72861	5	9'783	3'002
72862	5	12'647	3'938
72863	6	13'176	3'997
72864	4	13'365	3'300
72865	6	13'987	3'056
72866	9	14'846	3'443
72867	7	17'062	3'217
72868	5	17'466	3'605
72869	10	17'897	3'211
72870	5	18'226	3'852
72871	8	19'757	3'519
72872	13	22'014	3'184
72873	17	2'611	4'868
72874*	23	2'891	4'009
72875	11	4'498	4'335
72876	14	5'303	4'621
72877	6	6'299	4'839
72878	14	6'304	4'251
72879	9	9'098	4'471
72880	13	16'962	4'476
72881	11	17'388	4'814
72882	6	19'674	4'499
72883	12	21'529	4'138
72884*	29	23'396	4'611
72885	5	25'482	4'381
72886	7	25'829	4'516
72887	10	0'789	5'532
72888	14	1'159	5'448
72889	11	2'814	5'964
72890	11	7'650	5'060
72891	10	8'514	5'595
72892	8	9'286	5'778
72893	7	10'380	5'630
72894	8	10'929	5'504
72895	13	11'195	5'757
72896	6	11'456	5'542
72897	12	13'107	5'012
72898	9	13'467	5'459
72899	7	15'096	5'058
72900	12	16'764	5'192
72901	4	18'760	5'662
72902	5	20'318	5'061
72903	16	2'086	6'666
72904	5	5'311	6'510
72905	9	6'539	6'971
72906	23	7'703	6'032
72907	6	10'270	6'605
72908	12	10'723	6'966
72909	16	15'471	6'704
72910*	24	15'891	6'077
72911	8	15'995	6'694
72912*	27	17'647	6'589
72913	13	18'016	6'192
72914	8	18'041	6'220
72915	10	18'403	6'437
72916	7	21'214	6'121
72917	26	22'917	6'966
72918	5	24'418	6'400
72919	7	5'174	7'118
72920	12	5'356	7'219
72921	6	6'206	7'828
72922	8	7'267	7'216
72923	10	7'404	7'889
72924	7	7'481	7'893
72925	9	7'990	7'604
72926	5	8'109	7'984
72927	7	8'617	7'916
72928	6	8'666	7'325
72929	8	9'389	7'681
72930	5	9'590	7'129

72931	12	10°011	7°490	73005	17	21°915	12°873	73079	11	9°701	16°479	73153	11	12°697	20°779	73227	16	3°353	25°445
72932	8	10°260	7°809	73006	11	22°171	12°134	73080	12	9°801	16°258	73154	12	14°234	20°186	73228	9	7°515	25°441
72933	10	12°024	7°865	73007	15	24°305	12°583	73081	10	10°770	16°731	73155	6	15°577	20°083	73229	9	9°529	25°199
72934	5	12°382	7°179	73008	11	25°338	12°991	73082	5	11°355	16°655	73156	9	18°125	20°961	73230	12	9°548	25°422
72935	12	13°771	7°522	73009	14	25°837	12°154	73083	6	11°462	16°027	73157	30	18°384	20°015	73231	8	12°400	25°896
72936	19	13°858	7°796	73010	8	1°002	13°201	73084	14	13°045	16°031	73158	10	18°397	20°753	73232	4	15°627	25°166
72937	6	15°027	7°437	73011	11	1°766	13°700	73085	7	15°263	16°795	73159	8	19°926	20°808	73233	6	17°880	25°705
72938	11	16°471	7°621	73012*	26	2°680	13°851	73086	6	15°617	16°715	73160*	25	20°259	20°856	73234	11	20°141	25°713
72939	8	17°106	7°868	73013	12	6°706	13°501	73087	14	15°831	16°323	73161	7	24°119	20°343	73235	9	21°573	25°454
72940	10	25°459	7°052	73014	14	10°222	13°609	73088	8	16°220	16°557	73162	6	24°472	20°351	73236	10	22°387	25°293
72941	12	3°658	8°364	73015	18	13°180	13°839	73089*	29	16°415	16°043	73163*	30	2°534	21°189	73237	4	22°474	25°244
72942	4	8°761	8°015	73016	7	14°610	13°208	73090	14	17°215	16°729	73164	11	2°650	21°051	73238	7	25°856	25°193
72943*	43	10°039	8°192	73017*	34	15°799	13°407	73091	4	17°460	16°273	73165	20	2°961	21°107				
72944*	26	11°924	8°631	73018*	22	18°489	13°840	73092	4	17°808	16°824	73166*	25	4°559	21°534				
72945	11	14°560	8°700	73019	30	21°577	13°748	73093	7	19°935	16°340	73167	6	5°215	21°527				
72946	14	18°015	8°944	73020	4	23°204	13°899	73094	7	20°006	16°281	73168*	40	5°437	21°655				
72947	12	18°429	8°979	73021	5	23°434	13°830	73095*	66	20°185	16°109	73169	14	7°251	21°816				
72948	5	18°659	8°265	73022	16	24°888	13°464	73096	13	20°883	16°793	73170	6	11°752	21°029				
72949	16	19°460	8°282	73023	11	25°249	13°825	73097	11	22°841	16°064	73171	12	13°016	21°601				
72950	9	23°919	8°770	73024	7	25°578	13°056	73098	7	23°527	16°047	73172	9	13°647	21°736				
72951	12	24°776	8°982	73025	4	0°072	14°812	73099	4	24°167	16°746	73173	10	14°631	21°424				
72952*	31	0°809	9°931	73026*	34	1°235	14°821	73100	10	3°824	17°908	73174	5	16°324	21°606				
72953	10	2°687	9°476	73027	12	1°264	14°857	73101	20	5°078	17°449	73175	8	18°135	21°193				
72954*	25	4°722	9°205	73028	5	8°213	14°612	73102	14	6°204	17°724	73176	18	18°334	21°376				
72955	4	6°499	9°850	73029	11	9°572	14°141	73103*	25	6°934	17°195	73177	8	18°760	21°899				
72956	8	8°085	9°748	73030	8	10°009	14°412	73104	10	8°159	17°153	73178	16	21°877	21°843				
72957	9	9°106	9°294	73031	6	10°911	14°339	73105	5	8°800	17°449	73179	8	24°242	21°311				
72958	4	9°813	9°591	73032*	46	11°710	14°485	73106	21	12°473	17°321	73180	9	25°104	21°743				
72959	7	11°385	9°052	73033	5	11°981	14°103	73107	9	13°667	17°734	73181	5	25°749	21°759				
72960	7	12°362	9°396	73034	5	12°191	14°277	73108	11	14°087	17°899	73182*	70	5°377	22°449				
72961	8	14°439	9°994	73035	6	13°713	14°500	73109	4	17°254	17°116	73183	6	6°145	22°666				
72962*	12	16°400	9°092	73036	6	16°068	14°513	73110	14	20°376	17°097	73184	12	7°300	22°449				
72963	13	17°130	9°142	73037	12	16°216	14°474	73111	22	21°936	17°234	73185	6	10°715	22°161				
72964	13	19°489	9°049	73038	6	16°986	14°121	73112	9	22°685	17°972	73186	5	10°918	22°775				
72965	8	20°899	9°006	73039	18	20°073	14°167	73113	7	23°664	17°605	73187*	19	13°361	22°522				
72966	9	22°400	9°824	73040	7	23°226	14°089	73114	6	24°176	17°304	73188	9	14°116	22°286				
72967	6	23°993	9°447	73041	12	23°389	14°911	73115	9	2°953	18°927	73189	12	14°611	22°861				
72968	12	25°217	9°774	73042	6	1°455	15°832	73116	6	3°388	18°176	73190	13	18°631	22°047				
72969	18	0°237	10°299	73043	4	1°812	15°854	73117	5	9°288	18°679	73191	4	20°582	22°741				
72970	13	4°546	10°208	73044*	18	1°861	15°822	73118	9	10°249	18°301	73192	9	20°829	22°270				
72971	10	5°121	10°742	73045	11	2°067	15°991	73119	4	11°058	18°373	73193	15	20°921	22°565				
72972	9	8°843	10°244	73046	15	2°846	15°934	73120*	32	12°429	18°094	73194	4	22°098	22°579				
72973	8	8°948	10°951	73047	10	4°101	15°149	73121	11	14°231	18°192	73195*	22	22°145	22°214				
72974	7	9°735	10°564	73048	9	4°441	15°038	73122	24	14°820	18°347	73196	13	22°554	22°750				
72975	20	10°661	10°496	73049	13	4°903	15°045	73123	8	17°205	18°494	73197	6	25°746	22°094				
72976*	44	15°226	10°910	73050	4	5°562	15°052	73124	14	18°822	18°289	73198	4	25°969	22°036				
72977	11	15°668	10°054	73051	10	8°954	15°763	73125	10	19°468	18°501	73199	10	3°798	23°116				
72978*	46	17°372	10°469	73052	10	12°086	15°433	73126	4	19°765	18°267	73200	23	5°565	23°974				
72979	8	18°066	10°735	73053	11	13°267	15°018	73127	5	20°644	18°889	73201	13	6°935	23°127				
72980	12	18°640	10°949	73054	10	13°942	15°286	73128	7	20°830	18°763	73202	5	9°756	23°078				
72981	11	20°046	10°273	73055	13	15°587	15°725	73129	6	20°912	18°494	73203	12	15°081	23°579				
72982	12	24°434	10°166	73056	7	16°118	15°345	73130	4	24°095	18°030	73204	7	16°245	23°788				
72983	17	25°728	10°885	73057	9	16°225	15°027	73131	10	25°737	18°100	73205	8	18°261	23°623				
72984	20	4°140	11°059	73058	10	16°900	15°426	73132	4	1°068	19°229	73206	17	19°825	23°754				
72985*	31	4°550	11°464	73059	5	18°059	15°477	73133	13	5°171	19°596	73207	21	21°478	23°759				
72986	12	9°211	11°642	73060	5	20°203	15°226	73134	5	6°522	19°702	73208	6	22°089	23°480				
72987	7	9°873	11°720	73061	6	20°983	15°200	73135	10	7°515	19°169	73209	11	22°611	23°125				
72988*	45	12°863	11°077	73062	5	22°774	15°910	73136	9	15°656	19°766	73210	10	22°840	23°765				
72989	24	12°921	11°168	73063*	26	24°917	15°425	73137	13	15°836	19°977	73211	9	1°576	24°353				
72990	16	17°637	11°286	73064	12	25°499	15°020	73138	6	17°293	19°954	73212	4	1°755	24°986				
72991	7	18°060	11°967	73065	10	0°751	16°239	73139	9	18°559	19°145	73213*	27	2°274	24°479				
72992	6	22°951	11°828	73066*	24	1°135	16°125	73140	12	18°708	19°009	73214	6	3°005	24°334				
72993	14	25°278	11°351	73067*	17	2°206	16°220	73141	14	19°918	19°637	73215	11	5°413	24°160				
72994	10	0°602	12°099	73068*	5	3°673	16°248	73142	6	20°125	19°804	73216*	37	8°201	24°811				
72995	11	0°965	12°861	73069*	19	3°827	16°156	73143	11	20°233	19°126	73217	8	14°498	24°601				
72996	13	5°336	12°028	73070	8	4°075	16°739	73144	5	25°654	19°551	73218	5	14°651	24°169				
72997	19	9°117	12°491	73071	11	4°571	16°974	73145	6	2°286	20°185	73219	9	16°595	24°165				
72998	8	9°455	12°053	73072*	34	4°836	16°693	73146	7	4°448	20°374	73220	14	17°651	24°585				
72999	12	10°687	12°607	73073*	18	7°016	16°461	73147	12	4°586	20°537	73221	19	19°189	24°199				
730																			

73340	8	11.464	4.313	73390	8	7.455	9.304	73440	7	6.315	13.267	73490	13	19.368	16.604	73540	8	21.411	20.472
73341	11	11.552	4.363	73391	12	7.640	9.647	73441	6	6.688	13.374	73491	7	19.974	16.408	73541	8	22.787	20.588
73342	7	17.018	4.057	73392	6	8.091	9.975	73442*	31	9.815	13.759	73492	12	20.948	16.025	73542	18	3.162	21.678
73343	12	24.368	4.286	73393	7	8.493	9.816	73443	7	12.280	13.184	73493*	33	3.400	17.679	73543	8	4.144	21.304
73344*	17	25.773	4.753	73394*	14	12.575	9.047	73444*	20	12.516	13.602	73494	9	5.640	17.855	73544	7	7.151	21.784
73345	10	1.420	5.157	73395	12	13.612	9.644	73445	8	14.482	13.474	73495	8	6.143	17.576	73545	8	9.392	21.160
73346	7	3.955	5.230	73396	10	15.657	9.398	73446*	14	15.589	13.128	73496	7	6.448	17.947	73546*	20	10.153	21.150
73347	8	4.412	5.373	73397	9	15.865	9.221	73447	6	15.804	13.734	73497	10	8.351	17.512	73547	7	13.635	21.446
73348	9	13.593	5.705	73398	8	17.529	9.820	73448	8	18.955	13.673	73498	7	8.782	17.223	73548	7	13.957	21.813
73349	8	17.518	5.872	73399	8	22.554	9.643	73449	6	20.511	13.647	73499	8	12.082	17.763	73549	7	20.377	21.560
73350	16	18.817	5.328	73400	7	23.774	9.764	73450*	14	22.388	13.528	73500	8	13.899	17.956	73550	14	3.817	22.217
73351	8	19.209	5.303	73401*	13	25.442	9.098	73451	8	23.137	13.327	73501	9	17.357	17.334	73551*	20	3.838	22.217
73352	10	22.132	5.877	73402	8	1.953	10.053	73452	12	24.000	13.894	73502	7	19.095	17.633	73552	7	5.794	22.814
73353	14	5.065	6.961	73403	7	5.362	10.943	73453	9	24.785	13.252	73503	8	23.531	17.103	73553	8	7.380	22.980
73354	7	10.703	6.247	73404	8	6.314	10.035	73454	8	1.697	14.953	73504	11	23.563	17.226	73554	6	10.773	22.209
73355	11	11.152	6.407	73405	7	7.006	10.121	73455*	22	3.023	14.647	73505	10	24.867	17.231	73555	8	11.228	22.332
73356	7	11.847	6.585	73406	7	15.320	10.734	73456	12	3.763	14.613	73506	11	25.237	17.452	73556	7	11.721	22.420
73357	7	12.236	6.614	73407	7	15.815	10.633	73457	8	4.350	14.065	73507	8	1.306	18.357	73557	6	13.366	22.328
73358	6	13.268	6.230	73408	6	16.483	10.184	73458	7	6.078	14.055	73508	8	3.075	18.513	73558	13	16.611	22.647
73359	8	19.799	6.968	73409*	14	17.382	10.438	73459	11	12.453	14.513	73509	9	4.896	18.503	73559	8	19.065	22.292
73360*	12	3.972	7.310	73410	7	19.772	10.185	73460*	15	13.603	14.618	73510	12	4.982	18.448	73560	7	22.436	22.439
73361	7	8.151	7.313	73411	8	22.857	10.731	73461	7	16.693	14.478	73511	6	8.502	18.743	73561	18	22.479	22.572
73362	8	16.401	7.677	73412	12	24.768	10.688	73462*	20	18.042	14.065	73512	7	10.606	18.567	73562	14	24.581	22.232
73363	7	20.877	7.686	73413	9	25.403	10.318	73463	8	18.048	14.089	73513	8	11.169	18.358	73563	9	4.142	23.933
73364	12	21.710	7.356	73414	11	0.735	11.563	73464	7	18.258	14.521	73514	9	11.577	18.683	73564*	22	9.729	23.958
73365	8	22.501	7.086	73415	12	1.180	11.083	73465	6	18.369	14.624	73515	9	15.295	18.704	73565*	42	9.951	23.654
73366	7	23.052	7.707	73416	7	3.937	11.245	73466	8	19.073	14.456	73516	7	19.067	18.292	73566	7	14.392	23.163
73367	8	23.257	7.478	73417	7	6.680	11.112	73467	7	23.543	14.192	73517*	20	22.007	18.895	73567	8	17.550	23.624
73368	20	24.916	7.242	73418	12	7.092	11.552	73468*	22	24.418	14.300	73518	7	24.363	18.062	73568	7	18.884	23.076
73369	7	25.795	7.759	73419	7	7.143	11.663	73469*	22	0.437	15.676	73519	8	2.112	19.942	73569	8	25.687	23.172
73370	8	2.657	8.893	73420	10	10.331	11.276	73470	8	1.017	15.257	73520	8	2.968	19.100	73570	7	8.717	24.043
73371	7	3.608	8.796	73421*	16	15.835	11.191	73471	7	3.209	15.857	73521	6	4.788	19.161	73571	8	11.213	24.955
73372	12	6.042	8.106	73422	12	21.462	11.818	73472	11	4.581	15.242	73522	8	6.235	19.988	73572	7	11.814	24.473
73373	8	7.710	8.497	73423	6	22.825	11.942	73473*	31	6.365	15.895	73523	9	10.036	19.576	73573	7	11.915	24.421
73374	11	9.662	8.887	73424	11	1.315	12.364	73474	8	7.891	15.167	73524	7	15.753	19.847	73574	12	13.344	24.274
73375	7	11.113	8.755	73425	7	4.608	12.699	73475	7	9.468	15.981	73525	7	19.646	19.697	73575	8	14.179	24.434
73376	7	13.356	8.533	73426	8	7.277	12.673	73476	8	10.360	15.017	73526	7	25.076	19.663	73576	9	14.229	24.597
73377	8	13.777	8.687	73427	9	11.079	12.662	73477	7	14.277	15.546	73527*	23	25.509	19.942	73577	10	17.982	24.138
73378	9	15.326	8.810	73428	7	11.578	12.028	73478	8	16.640	15.872	73528	10	5.082	20.136	73578	11	20.620	24.857
73379	7	15.781	8.599	73429	14	12.322	12.708	73479	9	17.534	15.625	73529	7	6.292	20.195	73579	8	21.851	24.508
73380	8	16.447	8.993	73430	7	12.708	12.277	73480	7	20.245	15.650	73530	8	6.751	20.491	73580*	21	4.103	25.611
73381	8	16.460	8.695	73431	8	13.167	12.554	73481	10	23.265	15.904	73531	7	7.152	20.190	73581	7	6.391	25.591
73382	6	17.855	8.092	73432	7	16.554	12.603	73482	7	4.634	16.482	73532	9	8.136	20.183	73582	21	8.574	25.997
73383	8	23.392	8.983	73433	12	24.390	12.312	73483	6	10.769	16.283	73533	10	8.406	20.975	73583	10	8.945	25.336
73384	8	0.190	9.183	73434	11	0.373	13.700	73484	7	12.184	16.825	73534	9	9.454	20.517	73584	12	17.408	25.477
73385	7	0.646	9.975	73435	8	0.821	13.213	73485*	25	13.224	16.698	73535	8	10.312	20.966	73585	13	18.703	25.061
73386	9	3.665	9.193	73436*	12	2.493	13.163	73486	6	14.199	16.578	73536	10	13.023	20.341	73586	8	20.314	25.909
73387	7	3.923	9.314	73437	21	2.496	13.144	73487*	12	14.492	16.303	73537	10	14.207	20.349	73587*	20	23.921	25.585
73388	8	4.532	9.916	73438	7	5.162	13.600	73488	6	15.127	16.868	73538	7	20.070	20.537				
73389	7	4.610	9.392	73439*	10	6.297	13.383	73489*	31	18.829	16.243	73539*	22	20.585	20.663				

UNIVERSITY OBSERVATORY, OXFORD.

ASTROGRAPHIC CATALOGUE, 1900·0.

ZONE + 28°.

STANDARD CO-ORDINATES

OF

THE STARS IN THE CATALOGUE OF THE
ASTRONOMISCHE GESELLSCHAFT

(CAMBRIDGE).

EXPLANATION OF THE COLUMNS.

Oxford No.—This is the number assigned in the preceding catalogue of measures of plates taken at Oxford (see note immediately preceding this catalogue). Every star occurs on two or more plates and has a separate Oxford number for each plate. Thus Cambridge No. 11 is Oxford 30°·24 (on plate 0^h 0^m + 30°), Oxford 29°·132 (on plate 0^h 4^m + 29°), and Oxford 28°·221 (on plate 0^h 0^m + 28°). Hence for the complete specification of a star, the zone must be indicated as well as the number. The centre of the Oxford plate usually differs a little from the theoretical centre, and a star for which standard co-ordinates have been calculated may then fall outside the *réseau*; in such cases no Oxford number can be assigned, but the co-ordinates are printed nevertheless, as they may be useful for plates taken in the future.

Cambridge No. and Mag.—These columns require no explanation; but the stars in the Cambridge Appendix (p. 299), with a few exceptions, have not been used, as they were not available when these computations were made, about 1895–6. On the other hand, a number of cases where a substantial correction was required to the Cambridge place (as determined by discussions at Cambridge and Oxford in 1906) have been included. Such cases usually have a letter *a* (sometimes *b*) following the Cambridge number. A list of adopted Cambridge R.As. and Decs. for these stars is given at the end of this section.

Standard Co-ordinates.—This name was proposed (*Monthly Notices of the Royal Astronomical Society*, Vol. LIV. p. 11) for co-ordinates on an ideal plate fulfilling the following conditions:—

- (i.) Plate truly centred and oriented for 1900·0.
- (ii.) No refraction and aberration.
- (iii.) A suitable unit of length adopted.

The formulæ giving these co-ordinates are:—

$$\begin{aligned}\xi &= k \tan(\alpha - A) \sec(\theta - D) \cos \theta \\ \eta &= k \tan(\theta - D) \\ \text{where } \tan \theta &= \sec(\alpha - A) \tan \delta \\ \text{where } \alpha, \delta &\text{ are the R.A. and Dec. of the star,} \\ A, D &\text{ are the R.A. and Dec. of the plate centre,}\end{aligned}$$

and *k* depends on the adopted unit of length. For the Astrographic Catalogue, the unit chosen is 5' at the plate centre, and $k = 687\cdot549$.

For the calculation of ξ and η , approximate formulæ were used and reduced to tables. To avoid negative signs, the constant 13·0000 has been added to all the values of ξ and η to form

$$\xi' = \xi + 13, \qquad \eta' = \eta + 13$$

and the quantities ξ' and η' are given in the following Catalogue. The co-ordinates are thus referred to a corner of the *réseau* and not to the plate centre.

The Right Ascensions and Declinations used are those of the Cambridge Catalogue brought up from 1875·0 to 1900·0 with the precessions and secular variations given in that Catalogue without any application of proper motions. For determining plate constants *provisional* proper motions have been applied in some cases where they were known well enough; but as it appears probable that these may soon be determined more accurately, it was thought better to await further investigation before making any corrections to the following standard co-ordinates.

The co-ordinates here printed thus represent simply the places printed in the Cambridge Catalogue. In the course of the work some errors were found in the Catalogue, especially in cases of a single meridian observation only. Sometimes, for instance, the meridian declination is 1° in error, and there is *no* star near the catalogue place. The “standard co-ordinates” will then be quite erroneous and cannot be corrected in any simple way; they must be recomputed, and this has been done in some cases in which definite information was available (see above). Outstanding cases are reserved for tabulation and discussion in the last volume.

Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.				
+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.		
			ξ'.	η'.					ξ'.	η'.					ξ'.	η'.	
R.A. 0 ^h 27 ^m (continued)						R.A. 0 ^h 36 ^m (continued)						Plate 567. R.A. 0 ^h 54 ^m					
982	C	319	9.3	17.4442	11.1363	1579	C	441	8.5	24.3207	24.3969	2115	C	541	8.5	0.8907	18.4107
1041	C	321	9.5	18.4995	17.2686	1308	C	443	9.5	24.6012	10.8293	2105	C	542	9.0	0.9446	17.7389
1042	C	322	9.2	18.5602	17.5739	1431	C	445	9.5	24.8614	17.0278	2054	C	543	8.7	1.6521	8.5686
1035	C	326	9.4	19.2017	17.0275	1391	C	446	9.5	24.9638	14.6146	2011	C	544	9.0	1.8045	2.2328
1075	C	333	9.1	21.2232	22.2668							2078	C	546	7.8	2.4534	13.2694
1036	C	334	9.5	21.3768	16.9855							2155	C	549	9.3	3.6072	23.4088
921	C	335	9.3	21.8875	2.5082							2085	C	553	9.3	4.5419	15.1148
970	C	337	9.2	21.9185	8.3651							2132	C	555	8.6	4.7375	20.4526
1070	C	342	8.6	22.3615	21.2795							2049	C	558	9.0	5.5348	7.4860
1054	C	343	8.3	22.4245	19.6309							2094	C	559	8.4	5.8055	16.1021
1092	C	346	9.3	23.0084	24.5703							2004	C	563	9.0	6.0683	1.6670
910	C	345	8.8	23.0597	1.8554							2127	C	562	9.0	6.0934	19.8389
903	C	347	9.0	23.6343	0.9219							2117	C	569	6.0	8.8358	18.4259
1100	C	353	9.2	24.4866	25.5206							2163	C	571	8.0	8.9820	24.8000
1063	C	355	9.0	24.7885	20.6473							2079	C	572	9.5	9.0644	13.9407
Plate 2509. R.A. 0 ^h 36 ^m						Plate 1256. R.A. 0 ^h 45 ^m						2134	C	573	8.9	9.0937	20.1053
1594	C	353	9.2	0.8748	25.5267	...	C	436	9.5	0.1096	16.7882	2073	C	575	9.0	9.3629	12.6088
1494	C	355	9.0	1.0868	20.6485	1911	C	439	8.3	0.5305	20.7750	2041	C	576	8.6	9.5782	6.3374
1518	C	360	9.4	3.0447	21.2169	1937	C	440	9.2	0.6333	22.7869	2051	C	580	9.0	10.3546	8.1758
1495	C	362	9.3	3.7527	20.9914	1960	C	441	8.5	0.6883	24.4062	2149	C	584	9.2	11.2484	22.7966
1314	C	368	8.7	5.3939	11.8839	1811	C	443	9.5	0.7185	10.8355	2140	C	585	8.9	11.4336	22.0474
1102	C	369	8.6	5.5679	1.0655	1877	C	445	9.5	1.0929	17.0283	2014	C	586	7.2	12.0511	2.3978
1472	C	371	9.0	5.8347	19.9302	1845	C	446	9.5	1.1509	14.6136	2025	C	587	9.0	12.3467	4.4169
1540	C	370	4.1	5.8386	22.2672	1939	C	451	9.0	2.6050	22.2780	2080	C	588	9.5	12.4877	13.5274
1184	C	373	9.5	6.5578	5.6990	1951	C	453	9.3	2.7813	23.2238	2160	C	589	9.0	12.6890	23.2084
1137	C	374	9.0	6.6504	3.0056	1858	C	457	8.6	4.3929	15.1819	2090	C	591	8.9	14.3721	14.6637
1286	C	376	8.7	6.8758	10.8730	1962	C	461	9.0	5.6160	24.7286	2142	C	592	9.2	14.7611	21.6670
1105	C	381	8.5	7.8641	0.2853	1847	C	462	9.4	5.6174	14.5615	2121	C	600	8.8	17.1779	18.5427
1544	C	384	9.5	8.9445	22.4682	1859	C	464	8.8	5.8065	15.9626	2120	C	601	9.2	17.2791	18.8830
1546	C	385	9.0	9.3917	22.8589	1743	C	465	9.0	5.8314	4.7368	2036	C	602	9.4	17.3485	5.5061
1157	C	388	9.5	11.3885	3.2647	1886	C	466	9.0	5.9599	18.3296	2091	C	608	9.2	18.6734	15.0408
1418	C	389	8.9	11.5416	16.7119	1879	C	469	9.3	7.0192	17.6781	2065	C	609	8.6	18.7200	10.3824
1400	C	392	9.0	13.1331	15.3380	1860	C	473	8.8	7.4889	15.1539	2017	C	610	9.5	18.8868	2.7387
1216	C	393	8.2	13.2746	6.9277	1753	C	475	9.5	8.3524	5.6931	2021	C	612	6.6	21.4357	3.5419
1551	C	395	9.5	14.0433	22.6333	1823	C	476	8.9	9.7123	11.6231	2081	C	618	9.2	23.0620	13.8586
1174	C	402	9.4	15.3939	4.9658	1861	C	477	7.5	9.8173	15.0949	2123	C	620	9.3	23.5626	18.6920
1552	C	404	9.0	15.4790	22.3094	1804	C	480	9.3	10.1328	9.3074	2045	C	621	9.5	24.0828	6.8260
1502	C	405	9.4	15.5453	21.1712	1944	C	482	9.5	11.1272	22.6152	2165	C	623	8.6	24.1000	24.6149
1195	C	406	8.9	15.6429	5.9336	1724	C	487	5.7	11.6974	2.9910	2067	C	624	9.0	24.3198	10.5274
1123	C	410	7.3	16.0891	2.1369	1814	C	490	9.4	12.1099	10.8776	2027	C	625	8.7	24.6798	5.1819
1553	C	413	9.3	16.8787	23.1333	1817	C	493	7.6	12.6927	10.8963	2022	C	626	9.2	25.2710	3.9188
1323	C	415	9.0	17.5316	12.0642	1928	C	496	9.0	13.7957	21.3507	2048	C	629	9.3	25.6970	6.7973
1387	C	416	9.5	17.8349	14.3387	1890	C	500	9.4	14.6209	18.4288	2168	C	630	9.3	25.7063	25.1873
1408	C	421	8.6	19.3063	15.7898	1954	C	502	9.0	14.7829	23.9511						
...	C	420a	9.0	19.3549	0.2754	1824	C	503	9.5	14.8608	11.4416	Plate 1257. R.A. 1 ^h 3 ^m					
1510	C	423	9.0	20.4056	21.0631	1873	C	504	9.3	14.9889	16.9799	...	C	621	9.5	0.1264	6.8422
1511	C	424	9.5	20.8365	20.7670	1738	C	510	8.2	17.0798	3.8257	2294	C	624	9.0	0.4316	10.5388
1534	C	428	9.5	21.8042	22.3148	1839	C	511	9.3	17.3722	13.1857	2446	C	623	8.6	0.4715	24.6284
1556	C	431	9.1	22.7803	22.6928	1806	C	512	9.4	17.7917	10.0580	2238	C	625	8.7	0.6930	5.1875
1130	C	430	9.2	22.8459	2.1514	1841	C	514	9.3	17.8826	13.8695	2219	C	626	9.2	1.2608	3.9141
1465	C	432	9.3	23.2996	19.1937	1774	C	518	9.3	18.0794	6.3005	2245	C	629	9.3	1.7398	6.7844
1364	C	433	9.0	23.3905	13.5160	1975	C	519	9.0	18.1145	25.6220	2447	C	630	9.3	2.0881	25.1701
1365	C	435	9.0	23.5216	13.6186	1976	C	523	9.5	18.9586	25.9288	2220	C	634	9.0	3.2398	3.4943
1204	C	434	8.4	23.5660	6.0396	1907	C	526	8.8	19.6291	19.3999	2318	C	635	8.4	3.4423	12.7770
1430	C	436	9.5	23.8826	16.7694	1789	C	528	9.3	21.0292	7.3423	2459	C	636	9.3	3.9938	25.6329
1516	C	439	8.3	24.2299	20.7634	1967	C	533	7.5	21.4568	24.4005	2246	C	637	9.2	4.0258	6.3904
1557	C	440	9.2	24.2956	22.7770	1910	C	531	7.7	21.4581	19.4725	2221	C	640	9.1	4.3855	3.8060
						1790	C	532	9.3	21.5539	8.0830	2448	C	639	9.1	4.5367	25.0775
						1797	C	534	9.0	21.5672	9.0856						
						1762	C	535	8.7	21.6219	5.4357						
						1842	C	537	7.6	22.1006	13.2193						
						1720	C	538	9.2	23.0582	1.7712						
						1897	C	541	8.5	24.6335	18.4060						
						1882	C	542	9.0	24.6999	17.7356						
						1799	C	543	8.7	25.5763	8.5798						
						1728	C	544	9.0	25.8456	2.2474						

Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.																															
	Number.	Mag.	1900°0.		Number.		Mag.	1900°0.		Number.	Mag.		1900°0.																															
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.																														
R.A. 1 ^h 3 ^m (continued)															Plate 556. R.A. 1 ^h 21 ^m															Plate 558. R.A. 1 ^h 39 ^m														
2320	C	643	9°0	7°0731	12°6378	2921	C	776	8°2	2°1476	17°0064	3481	C	922	8°7	0°8293	10°8935																											
2298	C	646	9°0	8°0381	11°0331	2958	C	780	8°7	3°1598	21°0494	3525	C	924	8°3	1°5616	14°1734																											
2323	C	651	8°5	9°5635	13°0082	2815	C	784	8°5	4°5432	2°5466	3405	C	927	9°1	2°5981	1°6833																											
2388	C	650	8°9	9°5807	18°6204	2981	C	787	9°2	5°9181	22°4577	3442	C	928	8°8	3°4260	6°7852																											
2389	C	656	9°5	11°1596	18°3233	2933	C	788	9°1	6°0156	18°5392	3508	C	929	8°7	3°9187	12°7445																											
2428	C	658	9°1	11°8142	23°0462	2807	C	793	8°6	7°3255	1°7190	3575	C	930	9°0	4°0351	20°5834																											
2379	C	659	9°2	11°9475	17°7918	2924	C	796	8°2	8°4035	17°0386	3410	C	933	8°5	5°1027	3°1268																											
2400	C	660	9°3	11°9933	19°5833	2892	C	797	8°7	8°7143	12°3871	3462	C	935	8°6	5°5896	8°4611																											
2370	C	661	7°2	12°4701	17°0398	2902	C	800	7°7	9°3648	13°6121	3569	C	936	8°6	5°7217	19°7524																											
2411	C	666	9°0	14°0475	20°6880	2903	C	801	9°0	10°2876	13°2451	3620	C	939	7°5	6°3224	25°0255																											
2347	C	668	9°5	14°8728	15°1083	2802	C	804	9°1	10°9828	1°2564	3623	C	942	8°8	8°9811	24°5196																											
2288	C	669	9°0	14°9020	9°2771	2866	C	805	8°9	11°0962	7°7702	3451	C	943	9°1	9°4155	7°6686																											
2348	C	672	8°4	17°0751	15°0277	2819	C	807	9°5	11°4790	3°0732	3595	C	946	9°1	11°4777	21°1650																											
2255	C	673	8°9	17°4468	7°1333	2821	C	808	9°5	13°2482	3°0353	3561	C	947	9°3	12°5788	18°3642																											
2328	C	676	9°0	18°1406	12°3441	2811	C	809	8°2	13°3546	1°3737	3562	C	949	9°3	13°3293	18°3571																											
2235	C	679	8°0	19°0266	5°0372	2905	C	813	9°2	13°5715	13°4231	3511	C	950	7°7	13°5675	12°4684																											
2256	C	682	9°1	19°6750	6°8719	2804	C	814	8°5	13°9897	0°8552	3533	C	954	7°9	14°2242	15°8083																											
2432	C	687	9°3	20°9683	22°7921	2845	C	816	8°9	14°4228	6°1988	3471	C	956	9°1	14°4520	9°8401																											
2433	C	690	9°4	22°3734	22°6490	2822	C	818	9°5	14°7476	2°5784	3488	C	958	9°0	15°4373	10°4482																											
2292	C	691	8°5	22°5853	9°6378	2805	C	819	8°5	14°9041	0°8538	3584	C	963	8°7	16°5834	20°9601																											
2382	C	692	8°5	23°0194	17°5878	2868	C	821	9°2	15°1602	7°9406	3449	C	965	9°1	17°0730	6°9791																											
2268	C	694	9°0	23°9253	7°4047	2955	C	828	9°1	17°5198	19°6843	3634	C	966	8°7	17°7735	25°6196																											
2457	C	695	9°1	23°9392	24°9967	3005	C	834	8°5	20°6471	25°3610	3408	C	976	9°2	20°6256	1°6711																											
2406	C	696	9°4	24°1935	20°0538	3001	C	839	8°6	22°2936	24°9427	3515	C	977	8°4	21°0962	12°8706																											
2213	C	700	8°8	26°1586	2°0034	2828	C	838	8°2	22°4201	3°2899	3459	C	978	9°1	21°3825	7°8558																											
						2897	C	840	8°1	22°4659	12°7732	3438	C	979	8°8	21°9087	6°0473																											
						2829	C	843	9°2	23°8635	4°2283	3628	C	984	8°7	22°9772	24°4772																											
						2996	C	849	7°3	25°3682	23°8633	3555	C	986	9°2	24°1100	17°8108																											
												3480	C	989	9°0	24°9494	10°0125																											
												3537	C	991	8°4	25°8860	15°4151																											
Plate 1288. R.A. 1 ^h 12 ^m															Plate 557. R.A. 1 ^h 30 ^m															Plate 568. R.A. 1 ^h 48 ^m														
...	C	695	9°1	0°3178	25°0134	3292	C	849	7°3	1°7257	23°8531	...	C	986	9°2	0°3562	17°8252																											
...	C	696	9°4	0°4810	20°0663	3183	C	852	9°3	2°7852	11°5518	3771	C	989	9°0	1°0515	10°0125																											
2509	C	700	8°8	2°1128	1°9828	3110	C	853	9°0	2°8362	2°6133	3814	C	991	8°4	2°0877	15°3966																											
2510	C	705	9°1	3°0444	2°1980	3105	C	861	9°5	6°2758	2°1649	3721	C	992	8°3	2°3106	3°5513																											
2774	C	708	9°0	3°7973	25°5486	3130	C	863	8°8	6°5147	6°1314	3701	C	995	8°0	3°2321	0°6523																											
2629	C	712	7°6	3°9538	13°0460	3293	C	864	9°0	6°8799	23°4305	3898	C	999	8°3	3°6899	24°6726																											
2630	C	713	9°0	4°0735	13°4947	3274	C	867	8°8	6°9729	22°0506	3840	C	1002	9°0	3°9851	18°5785																											
2664	C	716	9°2	4°2096	15°8644	3144	C	870	9°5	8°1848	7°1896	3738	C	1007	8°8	4°7046	6°2878																											
2579	C	719	8°3	5°3894	7°5651	3286	C	871	9°1	8°2738	22°7826	3841	C	1008	8°7	4°8158	18°3362																											
2687	C	728	9°4	9°0226	18°2700	3275	C	876	8°7	10°9176	21°7268	3739	C	1009	9°2	4°9701	6°5122																											
2639	C	730	8°9	9°4946	13°6157	3310	C	877	9°1	10°9458	25°9212	3832	C	1010	9°2	5°3694	17°5926																											
2640	C	731	9°1	9°5089	13°8407	3258	C	878	8°1	11°5046	20°0655	3744	C	1021	9°1	10°8532	6°6252																											
2604	C	733	9°1	10°9847	9°8798	3191	C	883	9°0	12°0966	12°1730	3821	C	1023	7°0	11°6523	16°9107																											
2560	C	734	9°5	11°1047	6°3004	3259	C	886	9°0	13°0922	19°5982	3754	C	1024	8°3	11°7412	7°3408																											
2554	C	736	9°0	11°3114	4°8820	3176	C	887	7°3	13°1230	10°0923	3861	C	1029	8°9	13°8937	19°8072																											
2561	C	738	8°3	11°8362	6°4860	3303	C	893	8°2	15°6830	24°1075	3818	C	1030	9°5	14°9138	15°9952																											
...	C	740	9°1	13°9898	0°1615	...	C	896	8°9	17°1129	0°0954	3727	C	1031	9°3	14°9870	4°9281																											
2765	C	741	8°9	14°1577	24°5946	3133	C	897	9°4	17°1871	5°9701	3725	C	1032	8°7	15°2694	3°5129																											
2563	C	742	8°4	14°1931	6°0523	3119	C	899	9°1	17°5260	3°3507	3703	C	1033	8°5	15°5518	0°5529																											
2779	C	746	9°0	15°2893	25°6812	3167	C	902	9°3	18°7171	8°8374	3870	C	1034	9°0	15°8033	20°9238																											
2657	C	749	9°1	15°6708	14°7607	3215	C	905	9°3	19°5620	14°8790	3824	C	1036	9°5	16°1690	16°9180																											
2690	C	750	9°3	15°6978	17°8712	3312	C	906	8°8	20°1084	25°8177	3728	C	1037	7°5	16°3390	5°2121																											
2693	C	755	8°5	16°9374	18°5356	3241	C	908	8°5	20°5448	17°0640	3825	C	1040	7°8	16°7766	16°6976																											
2724	C	757	8°4	17°6777	21°3041	3122	C	912	9°2	22°2133	3°4541	3709	C	1039	8°0	16°8008	1°7592																											
2531	C	759	9°3	18°2786	3°4701	3123	C	916	7°2	22°7037	4°0323	3826	C	1044	9°5	17°2768	16°3929																											
2567	C	760	9°2	18°2910	6°3405	3171	C	918	7°8	23°4256	8°2161	3710	C	1045	9°5	18°1926	1°6202																											
2672	C	762	5°2	22°4944	15°6265	3182	C	922	8°7	24°7107	10°8893																																	
2673	C	763	8°9	22°6261	16°3883	3219	C	924	8°3	25°3826	14°1822																																	
2674	C	766	8°9	22°8993	16°4311																																							
2612	C	767	9°1	23°2856	10°8815																																							
2684	C	776	8°2	25°9162	17°0258																																							

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.						
+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.				
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.			
R.A. 1 ^h 48 ^m (continued)					R.A. 2 ^h 6 ^m (continued)					R.A. 2 ^h 15 ^m (continued)							
3792	C	1047	9°0	18°2108	11°3634	4434	C	1150	8°0	6°5438	12°0531	4860	C	1287	9°4	21°4174	19°7940
3756	C	1048	9°0	18°3666	7°6925	4417	C	1160	9°5	9°8979	10°3037	4736	C	1289	9°3	21°6472	11°2244
3836	C	1050	9°2	18°6471	17°2307	4465	C	1162	9°0	11°2060	15°9679	4665	C	1290	9°1	22°3711	5°0140
3705	C	1054	8°6	19°7781	0°8611	4453	C	1165	9°5	11°7310	14°1483	4906	C	1292	7°5	23°1208	22°5336
3747	C	1057	8°8	20°2650	7°1165	4322	C	1169	9°4	12°3818	2°5480	4649	C	1293	8°0	23°3450	3°5086
3736	C	1058	8°8	20°4394	5°3208	4445	C	1170	9°5	12°6946	13°3107	4833	C	1296	8°5	23°8259	17°4858
3737	C	1059	9°5	21°3731	5°9984	4429	C	1171	9°0	13°3484	11°1983	4639	C	1300	9°3	24°8746	2°7099
3828	C	1063	9°2	22°0856	16°7200	4530	C	1174	8°0	14°5851	21°7908	4650	C	1301	8°5	25°0575	3°8306
3852	C	1067	9°1	23°3756	18°6976	4386	C	1177	9°3	16°1742	7°5920	4706	C	1302	9°0	25°1841	7°5455
3732	C	1069	6°8	23°7862	4°8621	4490	C	1180	9°3	16°9667	17°7259	4666	C	1303	9°0	25°2303	4°4696
3853	C	1071	9°2	24°2446	18°2775	4373	C	1182	9°0	17°8582	6°7224						
3805	C	1073	7°8	24°4334	13°4414	4374	C	1185	9°5	18°8382	6°4329						
3779	C	1078	9°0	25°7402	10°1214	4442	C	1187	9°0	19°4190	12°1666						
						4317	C	1189	9°1	19°6788	1°4648						
						4491	C	1190	9°5	19°7164	17°4034						
						4375	C	1191	9°0	20°3725	6°7891						
						4475	C	1192	6°5	20°4864	15°7429						
						4499	C	1196	9°5	21°2859	18°7231						
						4307	C	1197	9°1	21°5456	0°8751						
						4396	C	1198	9°0	22°6181	8°2593						
						4494	C	1202	8°5	22°7981	17°2330						
						4568	C	1203	8°6	23°0915	25°4617						

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.						
	Number.	Mag.	1900'o.			Number.	Mag.	1900'o.			Number.	Mag.	1900'o.				
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.			
+28°.					+28°.					+28°.							
R.A. 2 ^h 33 ^m (continued)					R.A. 2 ^h 51 ^m (continued)					R.A. 3 ^h 9 ^m (continued)							
5300	C	1375	9.1	6.3071	16.2545	5732	C	1500	9.5	6.7685	12.0150	6318	C	1613	9.2	16.7882	24.1029
5215	C	1377	9.2	6.3864	2.3675	5799	C	1501	9.4	7.5506	16.6253	6273	C	1617	9.5	17.4327	14.6036
5316	C	1380	9.1	8.0448	18.6246	5635	C	1502	9.2	8.4658	4.5952	6292	C	1621	8.1	18.3631	17.6934
5251	C	1384	9.0	9.7616	7.9739	5636	C	1504	7.2	8.8753	4.8009	6274	C	1622	8.6	18.3825	14.4105
5274	C	1386	8.8	10.1764	11.8204	5703	C	1507	8.2	9.0060	9.8780	6275	C	1627	9.2	19.9745	14.3486
5356	C	1387	9.3	10.5037	24.2185	5888	C	1508	9.3	9.3655	25.8286	6330	C	1628	9.0	20.4383	26.0050
5258	C	1388	8.6	10.7763	8.3608	5721	C	1515	8.0	10.2224	11.2259	6208	C	1629	8.9	21.3029	1.6152
5338	C	1390	9.2	11.2487	21.1049	5859	C	1517	7.0	11.1413	22.1165	6287	C	1635	8.7	22.0189	17.1967
5296	C	1391	9.0	11.6346	15.9868	...	C	1527	9.0	16.4020	0.1433	6221	C	1637	9.3	22.6060	4.2520
5210	C	1392	8.5	12.0859	1.9813	...	C	1528	8.5	16.6095	0.2425	6222	C	1638	9.5	22.8576	4.3770
5246	C	1397	8.8	13.1171	6.8171	5619	C	1529	9.5	16.6433	2.8175	6295	C	1643	9.4	24.3925	17.3053
5320	C	1398	9.1	13.5055	18.5912	5846	C	1532	9.4	19.2710	19.5970	6214	C	1644	7.8	25.3699	3.1973
5290	C	1403	9.0	16.5411	14.9315	...	C	1534	8.6	19.6250	0.0284						
5344	C	1408	9.2	18.7248	22.2967	5781	C	1536	9.5	20.4792	14.8670						
5241	C	1410	8.9	19.1907	5.5558	5694	C	1540	9.4	21.1912	8.4355						
5346	C	1413	9.2	19.7019	22.8874	5744	C	1542	9.2	22.7368	12.2753						
5261	C	1414	8.8	20.1447	8.4266	5868	C	1543	9.5	24.0658	22.8470						
5249	C	1417	9.3	22.4638	6.6939	5869	C	1547	9.1	25.4097	22.8314						
5237	C	1420	5.0	25.2182	4.4359	5784	C	1548	9.4	25.4952	14.5370						
						...	C	1549	9.3	25.6976	17.6760						
Plate 1069. R.A. 2 ^h 42 ^m					Plate 1488. R.A. 3 ^h 0 ^m					Plate 1274. R.A. 3 ^h 18 ^m							
5429	C	1420	5.0	1.2175	4.4318	6144	C	1543	9.5	0.4048	22.8616	6529	C	1643	9.4	0.6294	17.3144
5474	C	1422	8.9	2.2112	9.6788	6037	C	1548	9.4	1.6808	14.5261	6425	C	1644	7.8	1.3464	3.1909
5457	C	1425	7.9	3.9922	8.1314	6145	C	1547	9.1	1.7482	22.8204	6494	C	1648	9.0	2.8744	12.5675
5585	C	1426	7.5	4.2849	25.4893	6076	C	1549	9.3	1.9410	17.6608	6560	C	1649	5.2	3.2291	21.2698
5542	C	1428	8.3	5.7096	18.2320	6152	C	1552	9.3	3.8192	23.2871	6538	C	1652	8.8	4.0839	18.6272
5405	C	1435	9.1	8.5602	0.9767	6016	C	1558	6.6	6.4440	11.5458	6504	C	1654	9.0	4.3539	13.9021
5470	C	1438	9.0	9.1320	8.6426	5913	C	1559	8.1	6.5127	3.1463	6506	C	1657	9.5	6.0887	13.4597
5435	C	1439	9.3	9.1339	4.3575	5905	C	1561	9.1	7.2366	2.1695	6401	C	1658	9.0	6.1626	0.1896
5407	C	1442	9.1	9.7781	1.1899	6167	C	1562	8.5	7.7644	14.4179	6507	C	1660	9.5	7.7492	13.3720
5573	C	1444	8.9	10.3586	23.9010	5979	C	1563	9.0	10.1552	25.5678	6525	C	1661	9.1	7.9879	16.7667
5458	C	1446	9.0	11.1692	7.3825	5980	C	1566	9.4	10.9125	7.2788	6426	C	1662	5.8	8.1779	3.9889
5567	C	1452	5.1	12.8646	22.9934	5966	C	1568	8.5	12.0201	6.7655	6498	C	1664	9.3	8.6990	12.9638
5553	C	1453	8.5	13.2054	20.5153	5936	C	1572	8.4	12.5734	4.5930	6434	C	1668	8.7	10.2471	4.9505
5495	C	1456	9.0	14.1909	12.7145	6138	C	1576	7.7	16.3564	21.8506	6585	C	1671	9.1	10.7988	25.3092
5577	C	1461	9.0	15.6724	23.9272	6149	C	1577	9.3	17.7105	22.3018	6412	C	1673	8.4	11.7756	1.5445
5513	C	1463	9.4	16.8133	14.7236	5904	C	1585	9.5	20.8382	0.9708	6460	C	1677	9.0	14.5431	8.0385
5539	C	1464	9.4	16.9518	17.5588	6142	C	1587	6.0	22.4542	21.3760	6558	C	1678	9.4	14.8056	20.9107
5506	C	1475	9.5	22.9427	13.4285	5972	C	1592	6.9	24.1128	6.3292	6527	C	1679	7.3	15.0062	16.5990
5527	C	1483	9.0	24.3854	15.6293	6027	C	1596	9.1	25.3594	12.5459	6533	C	1680	9.0	15.5673	17.3513
5555	C	1484	8.7	24.4248	20.3697							6566	C	1681	9.4	15.5720	21.1647
5581	C	1487	9.1	24.6245	23.7808							6444	C	1686	9.4	19.5431	5.4936
												6536	C	1687	9.1	19.6587	17.4248
												6406	C	1689	9.5	19.9309	0.3780
												6445	C	1692	9.0	22.6176	5.8667
												6407	C	1696	9.5	24.1508	0.5713
												6569	C	1700	8.5	25.0049	21.6468
Plate 2498. R.A. 2 ^h 51 ^m					Plate 1273. R.A. 3 ^h 9 ^m					Plate 1489. R.A. 3 ^h 27 ^m							
5785	C	1483	9.0	0.5913	15.6387	...	C	1592	6.9	0.1472	6.3449	6861	C	1696	9.5	0.0792	0.5871
5851	C	1484	8.7	0.7181	20.3779	6257	C	1596	9.1	1.5083	12.5378	6879	C	1700	8.5	1.3215	21.6434
5870	C	1487	9.1	0.9805	23.7845	6210	C	1601	9.3	6.3283	2.4136	6668	C	1710	9.2	6.6989	23.7645
5679	C	1489	8.6	2.2293	9.3558	6298	C	1604	9.1	9.1049	18.5791	6669	C	1713	8.2	7.5977	5.5969
5614	C	1492	9.0	2.6806	2.4789	6316	C	1605	8.5	9.2751	23.2950	6822	C	1714	8.0	7.7175	5.6845
5886	C	1490	8.3	2.7634	25.6513	6285	C	1606	9.0	11.9429	16.4641	6638	C	1716	9.5	8.0009	17.4009
5825	C	1496	8.8	4.5218	19.1689	6305	C	1607	8.4	13.3979	21.1252	6639	C	1720	6.0	8.4817	3.7723

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			ξ'.	η'.					ξ'.	η'.					ξ'.	η'.	
R.A. 3 ^h 27 ^m (continued)						R.A. 3 ^h 45 ^m (continued)						Plate 1321. R.A. 4 ^h 3 ^m					
6685	C	1725	9·2	10·0374	7·2431	7723	C	1852	9·1	5·5745	18·7456	8232	C	1979	8·1	2·5350	5·0825
6808	C	1728	9·5	10·8850	17·0855	7616	C	1856	9·0	7·2495	10·0969	8289	C	1980	8·3	3·2627	8·3279
6786	C	1729	8·9	11·8379	13·3115	7684	C	1857	8·8	7·5577	14·8622	8326	C	1981	8·8	3·7095	14·5003
6618	C	1731	9·3	11·9033	1·3672	7706	C	1858	8·7	8·4740	17·0378	8300	C	1984	9·4	3·9659	9·5068
6757	C	1732	9·1	13·4563	12·2434	7581	C	1860	9·0	9·2956	7·1353	8341	C	1985	9·5	4·8480	16·3263
6889	C	1738	9·2	17·8630	24·7490	7555	C	1872	9·3	13·4746	4·5643	8329	C	1989	9·0	5·6452	14·6470
6643	C	1743	8·9	19·2672	3·3087	7536	C	1873	9·4	13·6362	3·0221	8224	C	1990	9·0	6·1455	4·0590
6697	C	1744	8·5	19·3205	7·1717	7537	C	1876	9·4	14·0767	2·9330	8236	C	1991	5·1	6·2570	4·9819
6647	C	1747	8·1	21·0708	4·1449	7539	C	1880	9·4	15·2041	2·9464	8357	C	1992	9·0	6·5785	20·9510
6609	C	1749	8·9	21·2844	1·1605	7623	C	1881	8·8	15·3585	9·5647	8225	C	1994	8·5	6·5913	4·0300
6858	C	1750	8·5	21·4960	20·5953	7610	C	1882	9·0	15·4403	9·1199	8361	C	1995a	5·4	7·2764	21·7841
6883	C	1753	7·1	22·3050	23·7428	7506	C	1886	9·4	15·8386	0·4439	8227	C	1996	8·6	7·7939	3·9146
6676	C	1755	9·4	22·8044	5·5346	7546	C	1889	9·4	16·3190	4·1959	8295	C	1998	9·5	11·7735	9·1372
6610	C	1756	9·1	23·2000	0·6174	7635	C	1890	8·6	16·5537	11·0015	8375	C	2000	8·5	12·1732	24·1086
6677	C	1759	9·5	24·3827	5·8744	7547	C	1893	8·6	17·9637	3·7022	8348	C	2001	8·8	12·8791	17·5544
6794	C	1760	8·9	24·8008	14·3943	7625	C	1899	8·5	18·8614	9·8202	8218	C	2004	9·4	14·7991	2·6732
						7637	C	1902	7·8	19·6147	11·2200	8336	C	2015	9·0	21·3781	15·1407
						7675	C	1907	9·5	20·6766	13·8398	8366	C	2018	8·8	22·8706	21·8854
						7790	C	1908	9·5	20·6924	24·8183	8378	C	2019	8·6	24·0129	23·4497
						7648	C	1911	8·2	23·2577	11·7762	8229	C	2020	9·4	25·5997	3·4640
						7720	C	1913	9·2	23·8287	17·7861						
						7710	C	1914	9·5	24·0897	16·8616						
						7664	C	1915	9·5	24·9064	12·7038						
						7649	C	1916	8·6	25·4095	11·6489						
						7665	C	1918	9·5	25·8996	12·6889						
Plate 1316. R.A. 3 ^h 36 ^m						Plate 1490. R.A. 3 ^h 54 ^m						Plate 1322. R.A. 4 ^h 12 ^m					
6985	C	1759	9·5	0·4086	5·8852	...	C	1913	9·2	0·0744	17·8059	8480	C	2019	8·6	0·3630	23·4652
7183	C	1760	8·9	0·9839	14·3964	8015	C	1914	9·5	0·3183	16·8763	8418	C	2020	9·4	1·5811	3·4534
7163	C	1761	8·9	3·6110	13·5028	7966	C	1915	9·5	1·0583	12·7043	8433	C	2022	8·4	3·3141	9·5105
7058	C	1765	8·8	5·3192	8·5781	7950	C	1916	8·6	1·5418	11·6402	8490	C	2032	9·5	7·9870	25·0888
7004	C	1773	8·9	6·5852	6·2190	7967	C	1918	9·5	2·0510	12·6710	8437	C	2038	8·7	13·7179	11·2955
7314	C	1775	9·3	7·0283	20·4951	8077	C	1919	9·3	2·8757	21·5295	8496	C	2043	9·1	16·8209	25·1861
7234	C	1785	8·7	8·7349	16·7624	7894	C	1921	9·3	2·9309	7·2562	8463	C	2045	9·1	18·2718	19·8956
7271	C	1787	7·0	9·1312	18·4120	7819	C	1922	9·0	2·9659	2·2935	8411	C	2046	9·0	18·7250	2·2833
7211	C	1792	9·0	10·8516	15·5711	7807	C	1925	9·1	3·8629	1·1274	8412	C	2047	5·5	18·8832	2·3563
7255	C	1793	7·0	10·8835	17·5608	7969	C	1924	9·4	3·8936	12·5093	8469	C	2048	8·3	19·3251	20·8385
7150	C	1797	8·4	13·1969	12·8290	7883	C	1928	9·2	4·6943	6·5547	8413	C	2051	7·8	21·2781	2·3575
7151	C	1799	9·4	13·4371	12·8228	7936	C	1933	9·2	6·4173	10·7235	8445	C	2052	9·2	22·0230	15·1617
7238	C	1803	9·0	14·7249	16·9409	7911	C	1934	9·2	8·0349	8·9123	8414	C	2055	9·4	22·7963	1·5893
7011	C	1807	9·1	16·0725	7·0932	8061	C	1942	9·0	11·9368	19·2439	8444	C	2056	8·8	23·0055	13·8125
6926	C	1819	8·3	18·4017	2·2165	7850	C	1946	8·2	12·9191	4·2472	8447	C	2061	8·3	25·4469	15·0099
7129	C	1821	9·0	19·0916	11·7120	7999	C	1949	9·5	15·8247	15·1731	8478	C	2062	8·7	25·8654	22·5839
7047	C	1823	6·7	19·7569	8·0183	7886	C	1951	9·4	16·2688	6·8001						
7067	C	1824	7·0	20·0229	8·3334	8010	C	1952	7·3	16·3519	15·6546						
6964	C	1826	8·9	20·6215	3·8164	7857	C	1954	8·5	16·4586	5·0015						
7260	C	1829	7·5	21·8078	17·2977	7943	C	1958	7·7	18·5799	11·1689						
7135	C	1830	8·0	22·0984	11·6976	8001	C	1963	8·4	20·4537	15·1489						
7287	C	1835	8·4	23·0708	18·3197	7874	C	1964	9·1	20·6482	5·8459						
7304	C	1837	8·6	23·6206	19·5968	8044	C	1966	7·8	22·1794	17·6501						
6929	C	1839	9·1	23·8168	1·4381	8101	C	1967	8·1	22·4917	24·1344						
7023	C	1841	9·0	24·4637	6·6045	8003	C	1968	9·3	22·7297	14·5655						
7262	C	1843	8·5	25·7755	17·4931	7949	C	1969	8·3	22·9595	11·2373						
						7877	C	1971	8·3	23·2022	6·2320						
Plate 1317. R.A. 3 ^h 45 ^m												Plate 1329. R.A. 4 ^h 21 ^m					
7574	C	1841	9·0	0·5031	6·6137	8649	C	2061	8·3	1·6412	14·9999						
7712	C	1843	8·5	2·0155	17·4764	8707	C	2062	8·7	2·1992	22·5642						
7793	C	1847	8·9	3·8253	26·0333	8601	C	2063	8·3	2·2235	0·9785						
7703	C	1849	9·0	4·7657	16·4862	8708	C	2064	9·2	2·9544	22·7836						
7565	C	1851	9·0	5·3634	5·3267	8643	C	2065	8·0	3·7937	12·5089						
						8672	C	2066	8·9	4·0345	19·0462						
						8711	C	2069	8·3	5·6021	22·4714						
						8627	C	2078	9·5	10·6833	8·4126						
						8723	C	2080	9·0	13·6875	23·3887						

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			ξ.	η.				ξ.	η.				ξ.	η.			
R.A. 4 ^h 21 ^m (continued)						R.A. 4 ^h 39 ^m (continued)						Plate 1302. R.A. 5 ^h 6 ^m					
8621	C	2084	7.0	15.9514	7.6841	9104	C	2178	8.6	22.6543	20.2719	9708	C	2301	9.2	1.4015	23.0578
8609	C	2088	6.5	18.7481	3.2126	9096	C	2179	9.3	22.9175	19.4458	9662	C	2303	8.4	2.0602	15.9826
8606	C	2091	8.7	19.8049	1.7080	9071	C	2182	7.2	23.5952	15.1370	9655	C	2305	7.0	3.2311	14.7411
8716	C	2093	8.5	20.3933	22.8905	9119	C	2184	9.3	24.7340	22.1332	9609	C	2310	9.0	5.2193	3.0655
8640	C	2094	6.5	21.2287	11.9570	9120	C	2185	8.7	25.3997	22.2762	9729	C	2311	8.7	5.4663	24.8738
8717	C	2102	8.9	25.9557	22.6721	9112	C	2186	8.0	25.5555	21.2303	9740	C	2313	8.6	6.1195	25.2016
												9643	C	2315	5.5	6.2962	11.8613
												9644	C	2316	8.5	6.3149	11.8949
												9625	C	2321	8.9	6.9787	7.2232
												9620	C	2322	7.3	7.1075	6.1898
												9690	C	2328	8.3	8.8847	20.2256
												9722	C	2337	8.1	10.4408	23.4111
												9621	C	2339	9.5	11.2649	6.6137
												9714	C	2345	8.7	13.7220	22.9239
												9623	C	2347	8.9	13.8406	6.7863
												9629	C	2350	9.1	14.7840	8.8381
												9612	C	2354	9.2	17.0484	2.4754
												9657	C	2358	8.9	17.3849	14.2645
												9705	C	2360	9.4	18.4647	21.8137
												9604	C	2372	9.0	22.9464	1.2434
												9738	C	2378	9.0	23.3672	25.1778
												9667	C	2377	8.8	23.4015	15.3312
												9636	C	2380	9.0	23.9834	9.9157
												9616	C	2379	9.1	23.9892	4.9743
												9605	C	2382	8.6	24.1899	1.0002
												9654	C	2384	8.3	24.2663	13.9811
												9698	C	2385	9.0	24.4938	20.3184
												9699	C	2387	9.5	25.1504	20.5406
												9635	C	2388	8.8	25.2486	8.3269
												9719	C	2390	6.5	25.9727	22.6000
Plate 1330. R.A. 4 ^h 30 ^m						Plate 1300. R.A. 4 ^h 48 ^m						Plate 1303. R.A. 5 ^h 15 ^m					
8964	C	2102	8.9	2.2910	22.6507	9329	C	2184	9.3	1.0598	22.1352	...	C	2380	9.0	0.0840	9.9335
8952	C	2105	9.5	3.3875	21.2184	9330	C	2185	8.7	1.7280	22.2655	...	C	2382	8.6	0.1262	1.0151
8905	C	2106	9.2	3.6410	14.3483	9313	C	2186	8.0	1.8644	21.2169	9942	C	2384	8.3	0.4417	13.9932
8824	C	2108	9.5	4.4768	5.6668	9251	C	2187	8.9	2.7374	12.2208	10057	C	2385	9.0	0.7861	20.3251
8955	C	2109	9.0	5.6592	21.6491	9259	C	2188	8.4	2.7580	13.8220	9875	C	2388	8.8	1.3196	8.3218
8959	C	2111	5.7	8.7247	22.0310	9265	C	2190	7.6	4.0265	14.7320	10058	C	2387	9.5	1.4466	20.5349
8821	C	2112	9.0	9.0409	4.9003	9278	C	2192	8.1	5.7457	17.2880	9832	C	2391	9.0	2.1976	4.3177
8879	C	2113	9.0	9.4865	11.2921	9292	C	2193	8.9	5.7976	18.5535	10110	C	2390	6.5	2.3067	22.5783
8971	C	2115	9.5	12.9037	24.0629	9300	C	2197	9.4	8.1602	19.7384	9876	C	2392	8.7	2.5745	8.8911
8898	C	2116	9.1	12.9400	13.5887	9243	C	2201	6.0	9.1137	9.7680	9864	C	2394	9.5	4.3814	8.0080
8807	C	2117	8.9	14.5156	1.6095	9207	C	2202	8.8	9.4482	2.7667	10060	C	2396	7.3	4.9602	21.0972
8802	C	2118	8.6	14.5805	0.1854	9252	C	2203	8.2	9.7039	12.2988	10112	C	2397	9.2	5.1038	22.9099
8890	C	2119	9.5	14.7098	12.9924	9303	C	2210	9.3	12.8951	19.9812	10113	C	2400	8.8	6.0595	22.5181
8872	C	2120	9.3	15.1941	10.6826	9319	C	2212	8.7	13.3901	20.7790	9926	C	2401	8.4	6.1722	12.8200
8977	C	2121	9.0	15.2644	24.2023	9321	C	2221	9.0	15.9799	21.0082	10171	C	2403	9.5	6.2795	25.9338
8862	C	2123	7.4	15.4941	9.6656	9202	C	2223	7.5	16.6577	1.5009	10172	C	2404	9.5	6.3952	25.9915
8939	C	2128	8.4	18.8699	19.2200	9237	C	2225	8.8	17.4732	9.1353	10063	C	2406	8.7	8.3647	21.0322
8893	C	2130	9.1	20.2391	12.6960	9261	C	2228	9.0	19.3787	14.3240	9946	C	2408	9.0	9.3095	14.0222
8950	C	2131	9.3	20.5185	20.7381	9262	C	2229	8.9	20.3847	14.2781	9803	C	2411	9.0	9.3822	0.7653
8875	C	2132	8.8	21.7962	10.9057	9311	C	2231	9.5	21.5496	20.2583	9930	C	2414	9.0	11.1315	12.5776
8944	C	2134	8.3	21.9221	20.0501	9215	C	2232	8.6	22.1728	3.7098	10122	C	2415	8.4	11.4793	22.4848
8857	C	2136	9.3	24.6653	8.5196	9229	C	2235	9.5	22.9567	6.9922	...	C	2416	9.2	11.8063	0.0089
8858	C	2139	9.3	25.8288	8.8570	9327	C	2244	9.0	24.7378	20.7583	9915	C	2417	6.5	12.2317	11.2675
												9949	C	2419	9.0	12.3252	13.3692
												9837	C	2421	9.0	14.0319	4.9787
												9806	C	2423	8.8	15.2296	0.4858

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Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.						
+28°.	Number.	Mag.	1900°o.		+28°.	Number.	Mag.	1900°o.		+28°.	Number.	Mag.	1900°o.				
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.			
Plate 1733. R.A. 6 ^h 0 ^m					R.A. 6 ^h 9 ^m (continued)					R.A. 6 ^h 18 ^m (continued)							
14067	C	2865	9°0	0°6374	155313	15439	C	3038	9°5	5°1632	22°0097	15760	C	3169	9°4	8°0160	3°7563
13164	C	2874	9°0	1°7714	3°4988	15123	C	3047	8°5	6°9655	6°4952	16820	C	3167	7°9	8°0675	24°5186
13993	C	2875	9°0	2°0467	14°7166	15521	C	3048	8°2	7°5405	25°7207	16331	C	3168	8°8	8°0870	15°0497
13373	C	2877	9°1	2°6447	6°7394	15048	C	3051	9°0	8°3787	3°3355	16287	C	3176	7°5	9°0235	13°4174
14329	C	2878	9°3	2°7918	18°9629	15367	C	3054	9°2	8°6097	17°5915	15981	C	3177	9°0	9°1249	7°2898
13296	C	2883	9°1	3°0977	5°9291	15387	C	3055	9°5	8°9933	18°4591	16652	C	3178	7°7	9°5042	21°0441
14411	C	2879	9°3	3°1167	19°4316	15443	C	3056	9°0	10°2608	21°7912	15921	C	3179	8°4	9°6192	6°9144
14076	C	2882	9°0	3°1403	15°5032	15272	C	3057	8°7	10°5586	13°6744	16128	C	3180	7°9	9°8396	10°3575
14592	C	2886	7°9	4°1834	21°1479	15159	C	3058	8°2	11°1671	8°7049	15761	C	3182	8°0	10°0594	3°8604
13374	C	2892	9°2	4°6058	6°3097	15102	C	3059	9°1	11°6043	5°8222	16653	C	3183	8°4	10°2599	20°5155
13530	C	2894	8°7	5°4411	8°7516	15104	C	3060	9°0	11°9047	5°6958	16744	C	3186	8°3	10°4879	22°6632
14516	C	2905	8°7	6°8648	20°7953	15234	C	3062	8°8	12°2132	12°0412	16869	C	3188	9°5	10°7658	25°4602
13458	C	2907	7°8	6°9654	7°8950	15501	C	3063	8°8	12°3542	24°5779	16870	C	3189	8°9	10°9259	25°5054
14168	C	2911	8°3	7°5881	16°6542	15502	C	3068	8°7	13°3936	25°0043	15721	C	3192	7°8	10°9878	3°0076
14822	C	2914	8°5	7°8466	24°8592	15054	C	3071	9°3	14°4883	4°0491	16873	C	3194	8°9	11°7393	25°3007
14690	C	2919	9°0	9°4115	22°2574	15237	C	3073	8°0	14°6289	11°7220	16613	C	3198	9°5	13°2776	19°7395
13067	C	2920	8°9	9°4540	1°2756	15330	C	3077	8°0	14°9502	15°7982	16714	C	3203	9°1	14°3047	22°0115
14896	C	2926	9°0	10°3010	25°6451	15333	C	3079	9°0	15°4277	15°7814	16296	C	3205	7°7	14°8179	14°0226
14897	C	2928	9°3	10°5887	25°4319	15347	C	3081	8°8	15°6344	16°6051	16664	C	3208	8°7	14°9984	20°4662
13718	C	2932	9°4	11°8913	10°7875	15486	C	3082	7°5	15°6897	23°6191	16402	C	3211	9°1	15°4806	15°7911
14901	C	2933	9°5	12°2985	25°9001	15058	C	3086	9°3	16°2574	4°0947	16667	C	3213	9°1	15°8218	20°9082
14835	C	2936	7°4	12°3615	24°3035	15239	C	3094	9°0	17°7443	11°6299	15679	C	3217	8°8	18°0714	1°8628
13871	C	2942	8°6	12°8913	12°3063	15081	C	3096	9°1	18°5336	4°9105	16107	C	3227	9°1	19°6582	9°9846
13642	C	2945	9°3	13°2399	9°4557	15024	C	3097	8°9	18°7522	2°2880	15894	C	3230	9°0	20°5200	5°2116
13075	C	2947	8°5	13°6012	1°7631	15280	C	3099	9°1	19°3441	14°2902	16414	C	3233	9°0	20°6909	15°1477
13567	C	2948	9°4	13°8611	8°7089	15060	C	3101	9°3	19°4462	3°6246	16886	C	3235	9°5	20°8937	25°3658
14457	C	2951	9°5	14°4840	19°7031	15061	C	3104	8°8	20°0318	3°8152	16842	C	3237	9°4	21°0399	25°0049
14112	C	2952	9°1	14°5438	15°6027	15282	C	3105	7°4	20°1303	13°5354	15685	C	3238	9°4	21°1498	1°8200
14381	C	2959	9°0	16°5160	18°8017	15062	C	3109	7°2	21°2169	4°0175	15642	C	3244	9°2	22°0629	0°1342
13802	C	2960	8°5	16°6209	11°4514	15284	C	3113	8°0	22°2162	14°1543	16311	C	3246	9°3	22°7085	13°2755
14043	C	2962	9°0	16°7403	14°5093	15263	C	3118	9°3	23°1953	13°1922	16681	C	3248	9°0	22°8386	21°0901
14856	C	2965	8°9	17°0293	24°6727	15404	C	3119	9°3	23°3749	18°7879	16315	C	3252	9°4	23°8441	13°2741
14857	C	2966	8°9	17°0765	24°6835	15027	C	3121	8°4	23°7740	1°3440	16767	C	3254	9°5	23°9210	22°6590
13410	C	2967	8°8	17°5348	6°3232	15016	C	3123	9°0	23°8056	0°4380	16114	C	3255	7°7	24°2958	9°4193
14916	C	2968	8°7	17°5349	25°8541	15265	C	3124	9°2	23°8943	12°8682	15647	C	3256	9°3	24°4684	0°9135
14125	C	2971	9°4	17°8260	15°0709	15435	C	3127	9°5	24°9634	20°6784	16807	C	3260	9°4	24°8709	23°4596
14862	C	2975	8°8	18°3594	24°8841	15408	C	3130	7°0	25°2814	18°6809	15694	C	3263	7°0	25°4993	1°4779
13278	C	2977	9°3	18°5538	5°0570	15043	C	3129	9°1	25°3567	3°1795	16272	C	3264	9°3	25°5324	12°9779
13280	C	2978	9°3	18°6483	4°9923	15118	C	3132	8°3	25°7932	6°1741	15696	C	3265	8°7	26°0303	2°0919
14919	C	2979	9°0	18°8234	25°3941	...	C	3134	9°0	25°8883	5°9396						
14719	C	2986	8°9	20°1496	22°1842												
14650	C	2995	7°8	21°4424	21°2047												
13219	C	2994	8°0	21°4771	3°5351												
14303	C	2996	8°8	21°7621	17°5448												
14304	C	3001	8°2	22°0392	17°9999												
14568	C	3002	9°0	22°3979	20°5033												
14574	C	3009	9°0	23°8440	20°5647												
13046	C	3013	9°3	24°5016	0°9398												
...	C	3018	7°5	25°8681	24°1922												
Plate 2508. R.A. 6 ^h 9 ^m					Plate 1734. R.A. 6 ^h 18 ^m					Plate 661. R.A. 6 ^h 27 ^m							
15421	C	3009	9°0	0°1409	20°5837	16222	C	3124	9°2	0°0494	12°8871	...	C	3252	9°4	0°0066	13°2943
15001	C	3013	9°3	0°4366	0°9493	16636	C	3127	9°5	1°2623	20°6763	17087	C	3254	9°5	0°2565	22°6762
15475	C	3018	7°5	2°2316	24°1723	15750	C	3129	9°1	1°3330	3°1733	16901	C	3255	7°7	0°3872	9°4314
15018	C	3023	9°0	3°0650	2°1475	16542	C	3130	7°0	1°5434	18°6731	17389	C	3256	9°3	0°4030	0°9236
15460	C	3025	8°5	3°3647	22°5104	15904	C	3132	8°3	1°8245	6°1597	16918	C	3260	9°4	1°2211	23°4586
15031	C	3031	8°2	3°7114	2°8862	15847	C	3134	9°0	1°9153	5°9235	17156	C	3263	7°0	1°4435	1°4396
15121	C	3039	9°2	5°1511	7°0109	16021	C	3135	8°6	2°3696	9°0243	16919	C	3264	9°3	1°6892	12°9666
						16319	C	3137	8°6	2°5501	14°4687	17088	C	3265	8°7	1°9862	2°0738
						15805	C	3138	9°0	2°7240	4°9340	17391	C	3266	8°9	2°1751	9°8164
						16022	C	3139	8°7	2°7730	9°0651	17401	C	3271	8°0	3°3281	23°1774
						16686	C	3140	8°7	2°9959	21°8034	17403	C	3272	9°1	3°3834	24°5363
						16856	C	3148	9°0	3°7265	25°1359	17063	C	3274	9°0	3°5854	8°3373
						16775	C	3157	9°4	5°2625	23°4321	17090	C	3273	8°6	3°5903	9°3158
						15971	C	3161	9°1	6°6846	7°8461	17402	C	3276	9°4	4°2768	24°3683
						15972	C	3163	9°2	6°7351	7°6648	16902	C	3280	8°9	4°7488	1°2103
						15758	C	3166	9°4	7°9201	3°6640	17244	C	3281	6°9	5°2243	16°3614

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+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.				
			ξ.	η.				ξ.	η.				ξ.	η.			
R.A. 8 ^h 15 ^m (continued)					R.A. 8 ^h 24 ^m (continued)					R.A. 8 ^h 42 ^m (continued)							
24854	C	4455	9.1	4.2010	6.7596	25507	C	4586	9.0	24.9575	19.8016	26053	C	4707	7.7	20.5086	3.4164
25220	C	4456	9.0	4.3523	22.7024	25522	C	4588	8.5	25.0100	22.4912	26269	C	4708	9.2	20.5656	18.6967
24752	C	4459	9.0	4.6638	2.2631	25535	C	4589	8.9	25.1845	25.2627	26255	C	4712	9.0	22.9092	17.7849
24705	C	4466	9.4	5.9052	0.5672	25457	C	4591	9.3	25.4644	11.0939	26302	C	4720	6.5	24.7681	20.6692
25041	C	4465	8.5	5.9834	14.5434							26078	C	4721	9.0	25.2538	5.7489
25301	C	4464	8.8	6.0705	25.9252							26316	C	4722	6.0	25.2551	21.6313
24857	C	4467	9.4	6.6130	6.8896							26334	C	4723	9.0	25.4514	23.0534
25042	C	4468	8.9	6.9136	14.4117							26335					
24937	C	4469	8.8	6.9164	9.1613	Plate 1735. R.A. 8 ^h 33 ^m					Plate 1737. R.A. 8 ^h 51 ^m						
24833	C	4472	8.9	8.0952	5.5194	25734	C	4581	8.5	0.1249	10.1717	26706	C	4720	6.5	1.0668	20.6707
25146	C	4473	8.3	8.4715	19.4760	25926	C	4583	9.4	0.3900	22.7879	26476	C	4721	9.0	1.2774	5.7441
24708	C	4475	8.3	8.9346	0.4329	25884	C	4586	9.0	1.2402	19.7999	26728	C	4722	6.0	1.5714	21.6234
24787	C	4481	8.1	10.2069	3.1731	25927	C	4588	8.5	1.3424	22.4879	26737	C	4723	9.0	1.7940	23.0417
25225	C	4480	9.0	10.2275	22.4051	25952	C	4589	8.9	1.5678	25.2554	26778					
24887	C	4482	5.7	10.3178	7.5245	25765	C	4591	9.3	1.5865	11.0843	26469	C	4727	8.6	4.6600	4.5176
24813	C	4486	9.3	11.1717	4.6945	25886	C	4593	9.3	2.9075	19.4365	26751	C	4728	9.3	5.0987	23.5707
24814	C	4487	8.8	12.1165	4.4011	25968	C	4598	8.3	5.8889	25.6604	26433	C	4729	9.0	5.3409	2.3337
24918	C	4490	8.7	13.0195	9.0233	25682	C	4600	9.1	6.9174	6.9158	26470	C	4730	7.5	6.0691	4.6512
25104	C	4489	9.0	13.0207	17.8421	25917	C	4604	8.4	8.1207	21.8140	26679	C	4734	9.0	8.7431	18.9545
24866	C	4495	8.3	14.1254	6.7690	25899	C	4609	6.5	8.5229	20.7282	26495	C	4736	9.3	9.0517	6.5445
24942	C	4496	8.8	15.0434	10.0646	25601	C	4611	8.7	9.3270	0.6336	26647	C	4739	5.7	9.4977	16.7172
24716	C	4498	8.9	16.7778	0.4575	25918	C	4610	8.9	9.3789	21.6613	26782	C	4743	8.5	11.3615	25.6395
24959	C	4499	7.6	17.5760	11.1251	25828	C	4617	9.3	10.7845	14.9706	26406	C	4749	9.2	13.7868	0.3215
24845	C	4502	8.4	18.3018	5.9726	25644	C	4625	9.4	12.9133	3.7672	26408	C	4753	8.8	16.1967	0.3954
24769	C	4503	9.0	18.3871	2.3990	25935	C	4632	8.6	14.9871	23.2594	26531	C	4757	9.0	17.8947	8.4499
24820	C	4504	9.5	18.7203	4.2858	25867	C	4636	9.3	16.2563	18.4303	26611	C	4761	9.1	18.4891	13.2886
24895	C	4506	8.9	19.9833	7.4674	25944	C	4644	8.5	17.3519	24.1282	26429	C	4762	9.1	18.9284	1.5229
24720	C	4508	8.8	20.5152	1.1007	25632	C	4646	9.5	17.9952	3.2653	26721	C	4767	9.3	20.6760	20.5250
25320	C	4511	8.6	21.3118	25.9115	25650	C	4647	9.5	18.1677	3.9501	26787	C	4771	8.0	21.7738	25.7261
24823	C	4513	8.7	21.9389	4.4888	25694	C	4649	8.5	18.4207	6.5152	26462	C	4772	9.5	21.9155	3.5566
25268	C	4517	9.1	23.2835	23.7161	25962	C	4655	8.7	21.0440	25.2480	26465	C	4777	9.5	22.8963	3.7353
25189	C	4518	9.0	23.3485	21.2062	25912	C	4667	9.5	24.8251	21.1552	26655	C	4779	9.5	23.3947	17.2167
24981	C	4520	8.4	23.6114	11.5066	25720	C	4670	7.6	26.0782	8.0781	26552	C	4781	8.7	23.7386	9.7642
Plate 1528. R.A. 8 ^h 24 ^m					Plate 1736. R.A. 8 ^h 42 ^m					Plate 1738. R.A. 9 ^h 0 ^m							
25527	C	4525	7.7	2.4720	24.5069	26289	C	4667	9.5	1.1327	21.1554	27011	C	4787	9.0	1.8621	16.8833
25515	C	4526	8.0	2.5207	21.7829	26099	C	4670	7.6	2.1445	8.0577	27012	C	4789	6.2	2.0526	16.6099
25482	C	4529	6.1	3.4384	15.7147	26319	C	4671	8.6	3.5615	22.8109	26894	C	4799	8.5	5.8647	8.2946
25493	C	4531	8.4	4.0098	17.7077	26320	C	4672	9.0	3.6367	22.8440	27047	C	4805	9.1	8.0052	18.8407
25409	C	4532	5.5	4.3030	4.1661	26011	C	4675	9.1	3.7555	1.6933	27015	C	4807	6.5	8.2618	16.5365
25407	C	4539	8.8	6.2834	3.1104	26290	C	4673	9.1	3.8917	20.9811	27105	C	4811	8.8	9.2302	22.9054
25451	C	4541	8.7	6.5955	11.6955	26350	C	4676	8.9	5.2483	24.7757	26898	C	4819	8.9	12.4001	8.2767
25479	C	4540	9.5	6.6148	15.0581	26322	C	4679	7.2	6.4137	22.6992	26912	C	4820	9.0	12.6106	9.8690
25472	C	4544	9.5	8.5259	14.6227	26307	C	4682	8.2	7.6472	22.0576	27062	C	4821	9.4	12.8274	19.3215
25501	C	4545	8.9	8.6832	19.1954	26183	C	4684	7.0	8.3102	12.5402	26810	C	4822	9.1	13.7263	1.7709
25528	C	4548	8.9	10.6183	23.9502	26013	C	4686	8.1	8.4252	1.6146	27066	C	4826	8.7	16.7924	19.2639
25401	C	4550	9.4	10.7657	1.6631	26029	C	4691	8.6	10.6163	2.3093	27035	C	4829	8.3	17.5243	17.9018
25517	C	4553	9.4	11.4215	22.1848	26277	C	4690	7.0	10.6229	19.3521						
25497	C	4556	8.7	13.2326	17.9848	26232	C	4693	8.4	12.7016	17.1803						
25499	C	4565	9.5	18.2855	18.2051	26354	C	4698	9.1	14.5853	24.7642						
25485	C	4566	9.5	18.3928	15.9336	26310	C	4699	9.5	14.7789	21.4967						
25455	C	4573	9.0	20.1573	11.1283	26311	C	4701	9.0	16.4222	21.5218						
25511	C	4575	9.1	21.0600	21.6719	26035	C	4703	8.4	17.4506	3.0309						
25435	C	4576	9.2	21.2022	8.6678	26268	C	4706	9.0	19.8111	18.8928						
25441	C	4579	8.5	22.5545	9.2591												
25447	C	4581	8.5	24.0198	10.1547												
25526	C	4583	9.4	24.0524	22.7731												

Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.				
+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.		
			ξ'.	η'.					ξ'.	η'.					ξ'.	η'.	
R.A. 9 ^h 0 ^m (continued)						R.A. 9 ^h 18 ^m (continued)						R.A. 9 ^h 36 ^m (continued)					
26805	C	4830	8.9	17°6242	1°0130	27768	C	4925	8.6	7°3068	4°2627	28702	C	5044	8.7	4°3649	0°9577
26958	C	4834	7.9	18°6415	12°5675	27705	C	4929	9.3	9°1578	0°4048	29038	C	5043	9.4	4°3687	17°4966
26959	C	4835	8.4	19°5635	12°2453	27740	C	4932	9.5	11°5130	2°4944	28758	C	5046	9.4	5°2937	3°1494
26960	C	4836	8.4	19°7093	12°3376	27962	C	4935	8.1	13°0722	16°9319	28741	C	5049	9.2	5°7431	2°4551
26812	C	4838	6.0	20°7776	1°5656	28007	C	4937	8.8	14°0204	19°5389	29117	C	5052	9.2	8°3566	22°0541
26813	C	4839	9.3	21°0068	1°8155	28070	C	4939	9.2	14°6058	22°0248	29118	C	5053	9.0	9°0719	21°2885
26927	C	4840	9.1	21°0325	10°8760	27745	C	4941	8.4	15°3889	2°3540	29024	C	5056	9.0	10°6760	16°1387
27021	C	4843	9.5	24°4294	16°7784	27713	C	4950	9.5	17°4472	0°3962	28727	C	5057	8.7	11°0005	2°0152
27081	C	4847	9.3	24°9610	20°1841	27918	C	4959	8.5	20°7635	14°0041	28837	C	5058	8.9	11°3549	7°6813
27124	C	4852	9.0	25°4904	23°8218	27874	C	4961	9.5	22°9593	9°9537	29047	C	5059	8.6	12°4560	17°9225
						28033	C	4964	8.7	24°3325	20°5316	29048	C	5060	9.2	12°6784	17°4134
						27799	C	4967	9.0	24°9085	5°3377	28861	C	5068	8.6	16°8793	8°8513
												28993	C	5072	9.0	18°4970	15°0605
												28884	C	5078	9.1	20°8157	9°9523
												28918	C	5080	9.2	21°4705	10°2641
												29015	C	5081	7.3	21°9628	15°4497
												28825	C	5083	7.8	24°0088	7°1283
												29019	C	5084	8.8	24°7662	15°7730
Plate 1763. R.A. 9 ^h 9 ^m						Plate 1765. R.A. 9 ^h 27 ^m						Plate 1767. R.A. 9 ^h 45 ^m					
27475	C	4843	9.5	0°6565	16°7869	28511	C	4964	8.7	0°6287	20°5413	...	C	5083	7.8	0°0580	7°1460
27560	C	4847	9.3	1°2507	20°1821	28273	C	4967	9.0	0°9245	5°3392	29421	C	5084	8.5	0°9747	15°7755
27620	C	4852	9.0	1°8470	23°8092	28409	C	4969	8.6	2°9701	13°1655	29252	C	5086	8.5	2°3075	5°6691
27476	C	4854	9.3	2°4386	16°2043	28470	C	4970	8.9	3°1210	17°4693	29312	C	5087	8.4	2°7291	8°4878
27477	C	4855	9.0	2°4471	16°4299	28470	C	4970	8.9	3°1210	17°4693	29291	C	5090	9.0	5°5614	7°9402
27529	C	4857	9.0	3°9257	18°1991	28248	C	4972	9.5	3°8201	3°1488	29561	C	5092	7.7	6°5358	24°8477
27267	C	4864	9.0	6°3459	4°4678	28248	C	4972	9.5	3°8201	3°1488	29202	C	5097	9.5	8°0608	0°6685
27481	C	4863	9.0	6°3804	16°5498	28375	C	4973	8.0	4°3641	10°9930	29488	C	5099	9.1	9°4334	19°5799
27357	C	4866	9.5	9°2061	10°9488	28236	C	4976	9.3	5°6435	2°7684	29245	C	5108	8.9	11°3582	4°6368
27220	C	4874	9.1	10°8599	2°0750	28361	C	4981	9.5	7°5483	10°6366	29385	C	5115	8.5	14°9775	13°4948
27567	C	4876	9.0	11°4343	20°4630	28251	C	4983	9.3	8°1458	3°3899	29266	C	5121	8.8	16°7304	5°5026
27461	C	4879	8.5	12°1711	15°3635	28362	C	4987	6.8	8°9067	10°9331	29576	C	5123	9.0	17°1883	25°4467
27491	C	4883	7.9	14°6465	16°9652	28253	C	4991	8.5	10°0561	3°3529	29280	C	5124	8.0	17°4775	6°4821
27494	C	4884	8.2	15°5658	16°6116	28264	C	4994	8.0	11°0004	4°2293	29427	C	5126	7.4	17°5431	15°9284
27574	C	4885	9.0	15°7535	20°8440	28315	C	5000	9.1	12°4249	7°3217	29415	C	5136	7.3	21°5702	15°0302
27643	C	4889	9.5	16°6364	25°1698	28296	C	5001	7.0	12°8185	6°2551	29334	C	5137	8.8	21°7024	10°1769
27497	C	4891	8.9	19°2358	16°9696	28334	C	5004	8.3	13°4585	8°6750	29570	C	5138	9.0	21°7355	24°4230
27597	C	4894	9.4	20°1378	21°6444	28554	C	5005	7.0	14°1887	22°7389	29355	C	5141	8.9	23°5903	10°9382
27367	C	4893	6.7	20°1751	11°1030	28366	C	5006	9.5	14°5922	10°6377						
27390	C	4895	8.9	20°4364	11°8250	28367	C	5008	9.5	14°9535	10°1045						
27646	C	4896	7.0	20°7522	24°9714	28368	C	5011	8.0	16°1170	10°5477						
27409	C	4898	9.4	21°0768	12°3621	28257	C	5012	8.3	16°2243	4°0083						
27556	C	4899	8.8	21°2432	19°8291	28460	C	5014	9.4	16°8680	16°4705						
27319	C	4901	9.5	21°4937	7°8645	28483	C	5015	8.2	19°0984	17°5610						
27392	C	4902	9.1	22°5212	11°9725	28558	C	5017	8.5	19°1421	22°3871						
27599	C	4904	8.9	23°5411	21°3615	28320	C	5019	8.8	20°2503	7°7671						
27631	C	4905	9.5	24°3591	23°5269	28437	C	5022	9.1	21°8583	14°1081						
27601	C	4910	9.0	25°5116	21°4570	28562	C	5024	9.0	22°6846	22°4821						
27373	C	4911	8.7	25°8672	11°1908	28538	C	5026	9.5	22°8878	22°0513						
						28487	C	5027	8.9	22°9415	17°9837						
						28233	C	5029	9.4	23°4042	1°5593						
						28451	C	5030	7.3	23°5599	15°5211						
						28496	C	5031	8.9	23°6292	18°1254						
						28509	C	5032	9.0	23°7067	19°7103						
						28540	C	5034	9.3	23°8604	21°5954						
						28389	C	5035	9.3	24°0519	11°8517						
						Plate 1766. R.A. 9 ^h 36 ^m											
28079	C	4905	9.5	0°7106	23°5356	29111	C	5034	9.3	0°1762	21°6139	29658	C	5145	8.1	2°7054	4°9379
28035	C	4910	9.0	1°8248	21°4444	28924	C	5035	9.3	0°1881	11°8680	29909	C	5151	8.0	5°5570	19°8953
27892	C	4911	8.7	1°9910	11°1738	29056	C	5042	7.9	4°1248	18°4958	29989	C	5153	9.0	5°6576	24°0539
28036	C	4913	8.1	2°6087	21°6134							29807	C	5155	8.8	6°1977	13°6279
27839	C	4916	8.5	2°8806	8°0837							30013	C	5156	7.5	6°4143	25°4518
28037	C	4915	9.0	3°0009	21°0975							30014	C	5165	8.7	9°3210	25°7138
27780	C	4917	8.8	3°4429	5°2289							29993	C	5167	8.8	9°5615	24°6075
28087	C	4919	9.0	5°8203	24°4735							29837	C	5169	6.5	9°6138	15°8433
27895	C	4920	9.1	5°9476	11°7117							29762	C	5170	9.5	10°3241	10°5840
28089	C	4924	7.8	7°2474	24°1045							29808	C	5173	7.9	11°9237	13°0384
												29930	C	5180	7.9	15°4677	20°8941

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.									
	Number.	Mag.	1900°0.			Number.	Mag.	1900°0.			Number.	Mag.	1900°0.							
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.						
R.A. 9 ^h 54 ^m (continued)					R.A. 10 ^h 12 ^m (continued)					Plate 717. R.A. 10 ^h 39 ^m										
30019	C	5183	8.5	17.8144	25.5645	30628	C	5310	9.4	21.3797	25.2837	...	C	5441	8.4	0.0692	2.9545			
30004	C	5184	8.5	18.0373	25.0292	30547	C	5311	7.7	22.0662	15.8481	31513	C	5442	9.3	0.8153	4.4929			
29635	C	5190	9.5	21.5421	2.8492	30450	C	5313	8.4	22.4821	5.7066	31575	C	5445	8.9	1.6378	19.5032			
29955	C	5193	9.0	23.5859	21.6232	30432	C	5312	8.5	22.4932	3.4488	31550	C	5447	6.7	1.9243	13.6072			
29801	C	5194	9.5	24.6371	12.2425	30569	C	5314	9.2	23.0405	19.1178	31576	C	5446	8.9	1.9504	19.4346			
29869	C	5198	7.6	25.8087	17.0406	30637	C	5315	9.1	23.0692	25.5259	31519	C	5449	9.5	3.0794	6.6039			
29723	C	5200	9.5	26.0292	7.1702							...	C	5454	8.0	5.0435	0.0604			
										31532 C 5456 8.2 5.3048 11.0044										
										31540 C 5458 9.1 5.5896 12.9522										
										31522 C 5462 8.8 6.2952 7.5576										
										31582 C 5471 9.5 9.2260 20.6070										
										31539 C 5478 8.5 11.4057 12.1493										
										31510 C 5479 9.1 11.4893 3.5213										
										31517 C 5485 9.4 15.7624 5.9203										
										31571 C 5486 8.5 16.1303 18.8888										
										31504 C 5498 9.4 19.5585 0.5748										
										31586 C 5499 9.5 19.7850 21.8352										
										31598 C 5502 8.9 20.3762 23.1932										
										31518 C 5503 7.4 20.6963 6.2748										
										31515 C 5511 8.5 25.0938 5.0395										
Plate 1739. R.A. 10 ^h 3 ^m					Plate 1769. R.A. 10 ^h 21 ^m					Plate 703. R.A. 10 ^h 48 ^m										
30224	C	5194	9.5	0.7805	12.2478	30976	C	5321	9.1	2.5845	17.5804	31724	C	5511	8.5	1.1043	5.0378			
30261	C	5198	7.6	2.0403	17.0234	31061	C	5322	9.5	2.6377	22.7505	31812	C	5514	6.3	3.5151	19.0560			
30169	C	5200	9.5	2.0788	7.1509	30790	C	5328	9.0	4.2849	6.2586	31705	C	5517	8.7	4.9200	1.5074			
30102	C	5202	8.7	4.4473	0.7394	30715	C	5330	8.6	4.5512	1.0159	31832	C	5516	8.9	4.9469	20.8747			
30385	C	5208	9.4	7.2022	25.3357	30980	C	5340	9.5	8.5031	17.5662	31855	C	5518	9.4	5.1986	23.8671			
30257	C	5209	9.0	7.2296	16.0273	30872	C	5344	9.2	11.8745	10.7485	31856	C	5521	9.5	6.7994	23.7917			
30373	C	5213	9.0	8.4609	24.7785	30720	C	5350	8.5	13.2441	1.3970	31864	C	5525	9.1	7.0349	25.2930			
30157	C	5217	8.4	9.4964	5.6311	31077	C	5352	8.5	13.4282	23.6022	31792	C	5527	9.5	7.9158	14.3390			
30147	C	5218	7.8	9.7941	4.2671	30735	C	5355	8.2	14.0323	2.8340	31767	C	5528	9.0	8.3212	10.9334			
30312	C	5219	8.8	9.9967	19.4550	30984	C	5358	8.9	14.7997	17.5703	31701	C	5530	9.5	9.0496	0.5867			
30127	C	5220	8.9	10.8443	2.8777	31102	C	5360	9.1	15.7384	24.1996	31862	C	5531	9.5	9.5002	24.5577			
30151	C	5223	8.0	11.6490	4.4359	30847	C	5361	8.4	16.5799	9.6734	31702	C	5532	9.5	9.9713	0.9422			
30301	C	5228	8.7	14.9665	18.6726	30952	C	5362	8.9	16.6188	15.3664	31787	C	5533	9.4	10.2460	13.6116			
30175	C	5230	8.0	15.2398	7.5380	31083	C	5363	8.8	17.2961	23.7846	31843	C	5535	9.1	10.6811	21.4138			
30360	C	5233	9.0	17.3706	23.6344	30803	C	5369	7.5	18.7690	6.2240	31809	C	5540	7.8	11.2555	17.7456			
30335	C	5234	8.4	17.5513	21.2093	30919	C	5371	8.7	19.9863	13.1451	31704	C	5542	9.5	12.4154	0.9399			
30390	C	5238	9.5	18.9245	25.8467	30989	C	5373	9.0	20.3163	17.5377	31769	C	5543	9.3	12.9133	10.5537			
30273	C	5241	8.0	20.6808	17.0574	31127	C	5377	8.0	21.3210	25.8388	31845	C	5544	8.9	12.9294	21.4767			
30188	C	5248	8.5	22.8289	8.2265	30954	C	5378	9.1	21.6459	16.0369	31866	C	5548	9.5	15.8809	25.6228			
30351	C	5250	9.4	23.5526	22.9526	30971	C	5380	7.3	21.9624	17.0852	31721	C	5550	9.0	16.5656	3.3911			
30339	C	5251	7.0	23.6110	21.8764	30887	C	5382	8.2	23.0331	11.2196	31854	C	5552	9.2	17.8776	22.4914			
30352	C	5254	8.5	24.7123	22.3496							31805	C	5559	8.4	20.6172	16.3545			
30223	C	5255	8.0	24.9175	12.0690							31861	C	5561	9.5	21.9137	23.2782			
30340	C	5257	9.3	25.8068	22.1642							31763	C	5562	9.3	22.4709	9.3035			
															...	C	5572	8.3	25.9898	0.1096
Plate 1740. R.A. 10 ^h 12 ^m					Plate 1742. R.A. 10 ^h 30 ^m					Plate 1538. R.A. 10 ^h 57 ^m										
30608	C	5254	8.5	1.0421	22.3520	31376	C	5388	9.0	2.4303	19.7025	31901	C	5572	8.3	1.9093	0.0929			
30499	C	5255	8.0	1.0577	12.0691	31391	C	5392	9.5	3.6646	20.6356	31925	C	5573	9.5	2.5681	3.9926			
30598	C	5257	9.3	2.1330	22.1458	31392	C	5397	8.3	6.9324	16.5262	31920	C	5574	9.4	3.2281	2.7691			
30475	C	5259	6.5	2.8523	8.6074	31341	C	5404	9.4	9.8340	5.6938	32077	C	5577	8.6	5.2301	20.9653			
30615	C	5262	8.5	3.8500	23.4364	31239	C	5407	6.8	10.9967	18.7685									
30616	C	5265	9.1	5.6389	24.2204	31369	C	5410	9.5	12.1734	10.0232									
30549	C	5268	9.4	8.3222	16.8049	31277	C	5411	9.4	12.3254	20.4475									
30543	C	5269	9.3	8.4081	16.2203	31396	C	5416	9.3	12.7794	18.8199									
30514	C	5272	9.0	9.1923	12.5809	31372	C	5418	8.9	14.5436	10.6446									
30462	C	5277	9.0	10.4597	8.2661	31398	C	5419	8.5	16.2280	16.5582									
30576	C	5285	9.1	12.3316	19.8514	31285	C	5430	8.5	20.0017	2.5581									
30515	C	5289	7.7	14.1988	13.2946	31343	C	5434	9.4	21.9129	17.1794									
30506	C	5290	6.7	14.4386	11.9775	31216	C	5436	9.5	22.0539	25.4425									
30541	C	5302	9.0	19.0767	15.1447	31362	C	5435	9.2	22.0696	3.4572									
30620	C	5304	8.7	19.2799	24.3209	31440	C	5441	8.4	24.0973	2.9382									
30413	C	5303	9.0	19.3208	1.8819	31217	C	5442	9.3	24.8148	4.4895									
						31237	C	5445	8.9	25.3605	19.5127									
						31388	C	5446	8.9	25.6745	19.4497									
						31320	C	5447	6.7	25.7556	13.6227									

Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.										
+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.								
			ξ'.	η'.					ξ'.	η'.					ξ'.	η'.							
R.A. 10 ^h 57 ^m (continued)						R.A. 11 ^h 15 ^m (continued)						R.A. 11 ^h 33 ^m (continued)											
32089	C	5578	9.4	5.5773	21.2900	32622	C	5700	9.3	7.5336	19.0406	33162	C	5820	9.5	12.0010	25.4848						
32097	C	5585	9.3	7.6188	22.7039	32596	C	5701	9.1	7.7904	17.8957	33024	C	5824	9.4	12.8879	3.5614						
31927	C	5588	8.9	8.5592	4.0959	32671	C	5709	7.7	12.5288	23.2876	33163	C	5825	9.0	13.8403	25.5267						
31972	C	5590	8.9	8.6305	8.6255	32645	C	5711	9.4	12.8193	21.5441	33026	C	5826	9.5	15.6669	3.5590						
31973	C	5591	8.1	9.1084	9.0273	32490	C	5712	9.4	12.9344	8.5722	33047	C	5830	8.0	16.7119	7.1313						
31992	C	5592	9.0	9.2549	10.6836	32547	C	5715	9.0	15.2724	13.4540	33140	C	5832	8.8	17.1800	21.8024						
32052	C	5597	8.4	12.2277	17.9300	32459	C	5720	8.7	18.5213	6.0119	33123	C	5836	9.1	18.1172	18.5543						
31913	C	5604	8.7	15.0874	1.3602	32437	C	5723	9.3	19.6716	3.7307	33094	C	5841	8.9	21.6991	15.2026						
32101	C	5608	9.1	18.2495	23.8398	32676	C	5724	9.5	19.8637	23.8486	33075	C	5845	8.8	25.0020	10.7244						
32112	C	5609	9.0	18.4154	26.0117	32493	C	5726	9.4	20.5590	8.2753	Plate 1553. R.A. 11 ^h 42 ^m											
32044	C	5612	8.5	18.7469	16.6587	32482	C	5729	9.1	21.7141	7.7804												
31986	C	5615	9.5	19.0037	9.3936	32539	C	5731	9.5	22.0946	12.4980												
31938	C	5617	9.2	19.3241	5.2343	32515	C	5738	8.7	24.2071	10.3537	33321	C	5845	8.8	1.1174	10.7232						
31939	C	5618	9.0	19.5321	5.0407	32504	C	5739	9.1	25.3897	9.8784	33428	C	5846	7.3	2.8818	20.3501						
31941	C	5622	8.9	21.0872	4.2935	Plate 1539. R.A. 11 ^h 24 ^m						33366	C	5847	8.0	3.0670	14.5170						
32073	C	5624	9.0	21.3916	19.7751							...	C	5738	8.7	0.3158	10.3672	33272	C	5849	9.5	3.2296	6.8112
32074	C	5629	9.1	23.0045	20.1256							32766	C	5739	9.1	1.4894	9.8703	33481	C	5856	9.3	6.2663	24.8339
31966	C	5630	8.9	23.5970	8.0699	32810	C	5743	9.5	2.2734	15.6235	33483	C	5859	9.4	6.7707	24.8331						
31947	C	5631	8.5	24.0239	6.0798	32833	C	5745	8.8	2.5025	18.9507	33484	C	5860	9.4	6.7772	24.8131						
31931	C	5633	9.4	24.6468	3.9030	32731	C	5750	7.0	3.5725	4.5942	33344	C	5861	8.0	7.0558	12.6162						
32103	C	5634	9.0	24.7862	24.2919	32767	C	5751	9.0	3.7163	9.5288	33430	C	5862	9.1	7.7654	21.1492						
Plate 1743. R.A. 11 ^h 6 ^m						32758	C	5752	9.0	3.7673	8.4916	33322	C	5863	7.3	8.2680	10.2912						
						...	C	5631	8.5	0.0537	6.0973	32702	C	5755	8.0	6.0850	0.3536	33301	C	5867	9.0	9.3660	9.1390
						32221	C	5633	9.4	0.6364	3.9093	32817	C	5756	9.4	6.1830	16.5189	33265	C	5871	9.0	9.9936	5.7935
32368	C	5634	9.0	1.1517	24.2926	32808	C	5758	7.1	6.8260	24.5047	33312	C	5872	9.5	10.3321	9.9844						
32252	C	5641	9.1	3.9036	7.3812	32883	C	5760	9.1	7.4935	22.2970	33286	C	5875	9.2	12.2613	8.1518						
32354	C	5643	9.0	5.3835	22.8539	32704	C	5765	7.9	8.6036	1.0419	33287	C	5876	8.7	12.3480	7.9407						
32341	C	5645	9.4	6.1804	20.6870	32784	C	5768	9.3	9.5555	12.2939	33449	C	5877	9.0	12.9575	21.9718						
32337	C	5648	8.3	6.5200	19.3541	32893	C	5772	9.5	13.0447	23.9052	33346	C	5878	9.2	13.2146	12.9397						
32355	C	5650	9.1	7.7477	22.9450	32715	C	5773	8.6	13.3454	2.2905	33347	C	5880	8.5	13.3843	12.4430						
32329	C	5652	9.1	8.9879	17.8484	32865	C	5775	8.8	13.8005	20.6908	33207	C	5881	9.0	13.7746	0.6338						
32207	C	5656	8.9	10.6254	1.6461	32717	C	5776	8.7	14.1172	2.4114	33337	C	5882	7.5	14.9855	11.7535						
32281	C	5660	9.1	12.1214	10.2843	...	C	5783	9.1	16.0519	0.1802	33348	C	5883	9.3	15.1535	12.4600						
32259	C	5662	9.0	12.9845	7.7249	32748	C	5784	8.4	16.1489	6.6984	33491	C	5885	6.9	16.2501	24.6816						
32273	C	5663	9.5	13.2949	9.2303	32903	C	5787	6.9	17.2998	25.0413	33438	C	5887	7.2	18.2952	21.1364						
32364	C	5664	9.4	13.6525	23.3846	32799	C	5788	8.1	18.1024	14.0607	33443	C	5889	7.8	22.3623	20.8654						
32243	C	5665	7.7	13.8730	5.4867	32778	C	5797	8.8	25.5148	10.8112	33318	C	5890	9.4	22.9858	10.2445						
32260	C	5669	7.5	17.6524	8.1654	Plate 1745. R.A. 11 ^h 33 ^m						...	C	5896	9.5	25.4563	0.1173						
32276	C	5671	7.5	18.1429	9.6467							33066	C	5797	8.8	1.6317	10.8006	33601	C	5896	9.5	1.3760	0.1099
32277	C	5673	9.5	18.5707	10.0081							33102	C	5799	9.0	3.0861	16.8869	33819	C	5901	8.3	4.0426	24.6096
32291	C	5675	9.5	20.7981	11.4802	33061	C	5800	9.1	4.0339	10.1267	33799	C	5902	8.3	4.0775	22.0096						
32262	C	5682	8.8	23.5552	8.1852	33022	C	5807	9.3	6.9683	3.9230	33602	C	5904	9.2	4.9637	0.5674						
32307	C	5683	6.8	23.5715	14.4317	33118	C	5808	8.2	7.1734	18.4972	33831	C	5903	9.0	5.1007	25.8861						
32205	C	5684	8.3	23.6838	0.9821	33106	C	5809	6.0	7.8238	17.0168	33690	C	5906	9.1	5.3141	11.3829						
32303	C	5685	9.0	24.4754	14.1303	33050	C	5810	8.7	7.8324	7.3433	33701	C	5907	9.0	5.4092	12.3765						
32370	C	5687	8.8	24.6905	24.8959	33159	C	5811	9.2	7.9651	25.2997	33603	C	5909	9.4	6.2903	0.8207						
Plate 1770. R.A. 11 ^h 15 ^m						33037	C	5812	9.4	8.2705	6.1115	33763	C	5910	8.7	7.3811	19.2495						
						33109	C	5815	8.0	10.2998	16.9363	33604	C	5912	9.2	7.5429	0.4575						
						33081	C	5819	8.3	11.2884	12.9791	33682	C	5916	9.5	9.5420	10.2433						
32552	C	5685	9.0	0.6536	14.1384	Plate 1745. R.A. 11 ^h 33 ^m						33601	C	5896	9.5	1.3760	0.1099						
32680	C	5687	8.8	1.0671	24.8983							33819	C	5901	8.3	4.0426	24.6096						
32529	C	5691	8.6	2.5870	12.6446							33799	C	5902	8.3	4.0775	22.0096						
32518	C	5697	6.6	6.0773	11.9197	33066	C	5797	8.8	1.6317	10.8006	33602	C	5904	9.2	4.9637	0.5674						

Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.					Oxford No.	Cambridge A. G. C.				
+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.			+28°.	Number.	Mag.	1900°0.		
			ξ.	η.					ξ.	η.					ξ.	η.	
R.A. 12 ^h 45 ^m (continued)						R.A. 13 ^h 3 ^m (continued)						R.A. 13 ^h 21 ^m (continued)					
35816	C	6250	8.0	9.1713	16.9551	36498	C	6353	8.4	10.4891	21.9144	36942	C	6469	8.3	11.4612	19.0195
35628	C	6252	8.1	9.5603	2.7380	36424	C	6356	5.0	11.3646	14.9408	36876	C	6473	9.3	14.2113	9.7579
35676	C	6255	9.1	11.1449	6.1570	36309	C	6359	7.5	11.9895	1.6906	36961	C	6475	9.0	14.9195	21.6167
35787	C	6256	6.3	11.4717	14.1599	36425	C	6363	6.9	13.2977	14.1027	36836	C	6482	7.8	18.9111	5.3311
35607	C	6259	7.3	12.7696	0.7173	36355	C	6365	8.0	13.6836	6.7517	36979	C	6483	8.7	19.3166	24.6039
35609	C	6264	9.2	16.2826	0.4616	36513	C	6366	9.5	13.9158	22.0268	36879	C	6486	8.4	20.3133	9.8000
35762	C	6265	9.0	16.7005	11.6192	36426	C	6369	8.9	15.4734	14.6931	36886	C	6487	8.2	20.3263	11.4159
35884	C	6266	8.8	16.7433	23.7461	36547	C	6381	8.6	20.9797	25.9543	36980	C	6488	8.1	20.8802	24.6560
35750	C	6268	8.4	17.2204	10.3397	36524	C	6384	8.4	21.2308	23.6851	36971	C	6489	8.2	21.3131	22.6766
35680	C	6269	9.4	17.3135	6.6871	36428	C	6386	9.2	22.7596	14.4057	36851	C	6490	9.0	21.6793	7.2217
35781	C	6272	5.0	17.8441	14.0273	...	C	6385	8.2	22.8511	0.0536	36872	C	6494	9.4	22.7478	8.8772
35859	C	6276	8.6	18.8578	21.0933	36461	C	6390	4.1	24.1740	17.5948	36912	C	6496	8.5	23.8805	15.3462
35826	C	6279	9.0	21.3666	17.5398	36335	C	6393	9.3	24.9868	3.7869	36913	C	6500	8.7	25.4893	15.0531
35656	C	6280	7.4	21.5010	5.1134												
35870	C	6286	9.5	23.8039	21.3058	Plate 1786. R.A. 13 ^h 12 ^m						Plate 1788. R.A. 13 ^h 30 ^m					
35659	C	6284	7.5	23.8254	4.9157	36724	C	6390	4.1	0.4162	17.6079	...	C	6496	8.5	0.0812	15.3651
35804	C	6287	8.9	24.2586	15.6698	36612	C	6393	9.3	0.9747	3.7872	37091	C	6500	8.7	1.6844	15.0471
35901	C	6288	8.8	24.6877	24.9629	36627	C	6395	8.0	2.4056	5.9861	37119	C	6503	9.4	2.8136	18.7198
Plate 1778. R.A. 12 ^h 54 ^m						36675	C	6396	8.8	2.5468	11.6544	37100	C	6505	9.3	3.4669	15.2145
36208	C	6286	9.5	0.1145	21.3257	36619	C	6400	9.3	3.6762	4.8915	37064	C	6509	9.1	4.7704	10.2830
36141	C	6287	8.9	0.4652	15.6815	36683	C	6402	9.1	4.0893	13.2913	37017	C	6510	7.5	5.3547	2.4126
36240	C	6288	8.8	1.0656	24.9653	36771	C	6403	9.1	4.2542	23.2916	37121	C	6513	9.0	7.8288	18.6913
36171	C	6289	9.3	2.4390	18.5057	36679	C	6408	9.4	7.8593	12.2068	37070	C	6519	8.3	10.0048	11.3857
36184	C	6290	8.9	2.7280	19.4586	36669	C	6409	9.5	7.9729	10.5233	37081	C	6520	8.8	10.5715	12.5663
36226	C	6293	8.2	3.0466	22.3569	36710	C	6416	8.3	11.8776	16.2965	37174	C	6523	9.3	12.1266	25.1172
36150	C	6294	8.0	3.1948	16.7674	36655	C	6418	9.1	14.7369	9.2905	37089	C	6528	8.0	13.4317	13.2568
36092	C	6297	9.5	4.5910	9.9147	36713	C	6420	9.3	16.0502	15.5909	37030	C	6531	9.1	15.2801	3.7344
36161	C	6300	9.0	7.7699	17.1700	36686	C	6421	8.5	16.2198	12.7857	37126	C	6532	9.3	15.7685	18.3252
36248	C	6304	9.0	9.9012	24.6636	36747	C	6422	9.0	16.2784	20.1062	37144	C	6536	9.3	18.5887	21.2358
36235	C	6311	7.0	12.3461	23.3119	36754	C	6423	8.7	16.5396	21.0643	37127	C	6537	7.9	18.9686	18.6981
36096	C	6312	9.2	12.3658	9.8198	36783	C	6425	8.8	17.5404	24.7775	37178	C	6539	8.6	19.1337	25.0638
36124	C	6313	7.5	12.6429	13.2153	36757	C	6428	8.9	18.3614	21.1517	37160	C	6545	9.4	21.3325	22.9982
36083	C	6314	8.2	12.6749	8.9110	36758	C	6429	9.1	18.3983	20.8312	37037	C	6546	8.2	21.5991	4.8035
36199	C	6315	7.4	14.8987	20.2651	36702	C	6431	9.0	19.0611	14.9060	37043	C	6547	9.2	22.1587	5.2182
36228	C	6316	8.1	14.9631	22.3404	36630	C	6434	8.9	20.1212	6.1716	37066	C	6549	8.0	22.8548	10.5875
36265	C	6320	9.1	17.9725	25.6031	36759	C	6435	7.9	21.3750	20.5791	37013	C	6555	9.0	25.2557	1.8562
36010	C	6328	9.1	23.9018	0.1763	36717	C	6436	9.1	22.6936	15.5590	37035	C	6556	7.2	25.7138	3.3866
36011	C	6329	9.5	23.9850	0.3589	36610	C	6437	8.7	22.8601	3.1143	Plate 1557. R.A. 13 ^h 39 ^m					
36257	C	6335	8.5	25.7324	24.9325	36739	C	6439	9.3	23.5743	19.0894	37208	C	6555	9.0	1.2075	1.8519
36140	C	6334	9.1	25.7460	14.6011	36760	C	6441	9.1	25.6036	20.7622	37230	C	6556	7.2	1.6938	3.3740
Plate 1779. R.A. 13 ^h 3 ^m						36625	C	6440	9.3	25.6296	4.9299	37418	C	6558	9.0	3.2104	23.3062
36421	C	6334	9.1	1.9327	14.5856	Plate 1787. R.A. 13 ^h 21 ^m						37201	C	6560	9.0	3.3507	0.8683
36527	C	6335	8.5	2.1096	24.9149	36831	C	6440	9.3	1.6378	4.9185	37343	C	6565	9.1	5.1892	17.2026
36481	C	6337	8.8	3.7889	20.7647	36949	C	6441	9.1	1.9038	20.7478	37380	C	6564	6.5	5.1985	19.8771
36529	C	6341	9.1	6.2629	24.1810	36863	C	6445	8.7	3.6560	9.2816	37430	C	6570	9.1	8.1682	24.5318
36319	C	6343	7.6	7.3132	2.4662	36822	C	6446	8.7	3.7275	3.5786	37357	C	6574	8.8	9.8009	17.5584
36409	C	6344	9.3	7.6848	12.5276	36806	C	6449	8.1	3.8367	1.5314	37404	C	6575	8.3	10.0006	21.4933
36510	C	6347	8.9	8.3789	22.6529	36983	C	6453	9.0	4.7733	25.5481	37285	C	6576	8.9	10.2470	10.3046
36485	C	6350	8.7	9.6624	20.3164	36929	C	6455	8.9	4.9653	18.1195	37312	C	6577	8.5	11.3244	12.4818
36382	C	6351	8.9	10.3397	9.8100	36985	C	6457	8.8	5.9033	25.5590	37322	C	6583	7.0	14.4808	14.0612

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.						
	Number.	Mag.	1900'o.			Number.	Mag.	1900'o.			Number.	Mag.	1900'o.				
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.			
+28°.					+28°.					+28°.							
R.A. 13 ^h 39 ^m (continued)					R.A. 13 ^h 57 ^m (continued)					R.A. 14 ^h 15 ^m (continued)							
37387	C	6587	9'1	17°0131	19°7678	37933	C	6692	9'2	15°7035	4°5673	38463	C	6819	8'0	24°7498	9°7534
37398	C	6588	9'0	17°0132	21°2901	38038	C	6696	9'0	17°4723	18°8317	38476	C	6820	6'5	25°1690	11°4576
37289	C	6590	8'0	18°9902	9°7346	38032	C	6698	9'0	17°7267	16°4484	38562	C	6822	9'3	25°4808	24°5768
37218	C	6592	9'2	20°0700	1°9458	37999	C	6699	7'5	18°1260	12°9008	38522	C	6825	9'4	25°9160	19°1182
37360	C	6595	9'5	20°1790	17°9394	37912	C	6701	9'3	20°7830	1°9972						
37281	C	6594	7'9	20°2349	9°3432	37945	C	6709	9'2	24°3638	5°4400						
37361	C	6597	8'1	20°8649	18°3368	37946	C	6711	9'4	25°3843	5°9419						
37307	C	6598	9'5	21°1313	11°4847	38025	C	6712	8'9	25°9999	15°4948						
37207	C	6601	8'8	24°8477	1°2099												
Plate 1780. R.A. 13 ^h 48 ^m					Plate 1789. R.A. 14 ^h 6 ^m					Plate 1791. R.A. 14 ^h 24 ^m							
37513	C	6601	8'8	0°7877	1°2131	38236	C	6709	9'2	0°3818	5°4513	38668	C	6819	8'0	0°8473	9°7571
37533	C	6604	9'1	2°3361	3°7387	38237	C	6711	9'4	1°4114	5°9347	38684	C	6820	6'5	1°2979	11°4532
37695	C	6605	6'8	2°8843	17°5950	38318	C	6712	8'0	2°2030	15°4741	38786	C	6822	9'3	1°8514	24°5641
37708	C	6606	9'4	3°5317	18°5688	38238	C	6717	9'0	3°2610	6°3899	38726	C	6825	9'4	2°1858	19°0983
37562	C	6607	7'0	3°7477	6°7859	38369	C	6718	7'0	3°6728	24°0068	38796	C	6828	9'0	3°9839	25°8350
37501	C	6609	9'1	4°6949	0°2158	38201	C	6724	8'8	6°4491	1°1910	38703	C	6829	9'0	4°1177	14°3899
37650	C	6610	8'6	5°4900	13°8071	38218	C	6725	8'0	6°7029	4°0325	38638	C	6831	9'0	5°3652	5°4073
37652	C	6615	8'9	7°4125	13°4028	38229	C	6733	8'1	10°3094	5°4038	38697	C	6836	8'0	8°1145	14°1515
37588	C	6618	8'2	9°2981	8°4854	38205	C	6735	8'2	12°0093	1°8803	38799	C	6838	9'5	9°0486	25°5276
37542	C	6622	9'4	9°9363	4°8279	38307	C	6738	8'0	12°8633	14°2673	38772	C	6840	9'1	9°3107	22°4087
37762	C	6629	8'5	13°9019	21°2225	38339	C	6741	9'1	14°8675	18°7402	38640	C	6842	8'8	9°4598	6°1958
37623	C	6630	9'4	14°1802	11°3898	38340	C	6743	8'2	15°8610	19°0701	38604	C	6843	9'2	10°5465	2°0840
37751	C	6632	9'1	14°1989	20°2616	38232	C	6744	9'5	17°4255	4°6736	38693	C	6844	8'9	11°4106	12°5570
37503	C	6631	9'5	14°2345	0°2158	38341	C	6745	9'3	18°1770	19°3304	38605	C	6846	8'0	11°8018	1°4678
37692	C	6633	8'5	14°2827	16°7487	38225	C	6748	9'3	18°7690	3°6001	38759	C	6850	7'5	13°3135	21°8392
37667	C	6634	8'5	14°3633	14°6614	38269	C	6751	9'5	19°0355	8°1760	38760	C	6851	7'0	13°3986	21°8493
37582	C	6639	8'3	14°9266	7°9411	38315	C	6753	8'5	20°3724	14°7284	38617	C	6854	9'0	15°3722	3°2428
37643	C	6642	8'0	15°4778	12°8564	38309	C	6757	8'5	22°6258	13°7045	38790	C	6857	9'5	15°6508	24°6556
37506	C	6643	9'4	15°5259	0°0801	38333	C	6758	9'0	22°6742	17°8473	38608	C	6856	9'0	15°7178	1°5137
37772	C	6646	7'8	17°2208	22°8475	38217	C	6759	8'1	22°9113	2°9900	38802	C	6860	9'1	17°9041	25°4313
37593	C	6656	9'2	23°4636	8°9936	38203	C	6762	8'5	24°3831	0°9375	38730	C	6862	9'0	20°0328	18°4509
37647	C	6657	5'0	23°6014	12°8331							38680	C	6864	9'4	20°2778	11°0783
37774	C	6658	8'8	23°9021	22°9699							38710	C	6869	8'3	21°0170	15°6611
Plate 1891. R.A. 13 ^h 57 ^m					Plate 1790. R.A. 14 ^h 15 ^m					Plate 1792. R.A. 14 ^h 33 ^m							
38076	C	6658	8'8	0°2434	22°9875	...	C	6762	8'5	0°3181	0°9489	38949	C	6875	8'8	1°2024	6°9247
37919	C	6664	9'0	2°3864	3°1362	38500	C	6768	7'0	2°3318	15°4320	38983	C	6876	9'0	2°0606	11°2983
38062	C	6666	9'3	3°9165	21°8092	38557	C	6770	9'1	3°8586	24°6880	38985	C	6879	9'5	3°4176	11°3406
38063	C	6667	9'2	4°8175	21°7798	38413	C	6772	8'6	4°9394	2°1135	39075	C	6889	8'1	4°8910	24°1648
37959	C	6668	8'9	5°3004	7°5830	38459	C	6781	8'7	6°9290	9°9678	39055	C	6893	8'9	5°9115	20°4832
37947	C	6670	8'9	6°2819	6°9642	38564	C	6783	9'1	7°0609	25°1346	39069	C	6894	8'0	6°0806	23°0206
38080	C	6673	9'1	6°5062	22°3516	38487	C	6785	9'0	8°6599	13°4196	39000	C	6895	9'1	6°1625	12°5567
37927	C	6674	9'0	6°9330	5°1254	38460	C	6786	9'4	8°8894	9°0934	38976	C	6896	8'8	6°5494	10°9570
37978	C	6681	8'9	8°4382	9°9942	38424	C	6788	7'8	9°3954	4°1123	39083	C	6898	9'5	7°2089	24°2112
38058	C	6683	9'0	8°7942	20°7523	38553	C	6790	9'1	9°6299	23°1425	39084	C	6902	9'2	8°8603	24°5074
37967	C	6684	8'5	9°0394	8°4850	38554	C	6792	7'3	10°7248	23°7780	38990	C	6905	7'0	10°3923	12°0486
38089	C	6686	9'0	9°5916	24°0335	38560	C	6797	9'0	15°1957	24°4633	39078	C	6906	9'0	11°0020	24°1406
37991	C	6689	6'0	12°0532	11°4334	38443	C	6798	8'8	15°3225	6°3668	39023	C	6909	8'4	11°8749	16°2448
38090	C	6690	7'5	12°4983	23°7163	38409	C	6800	7'5	15°8589	1°3809	38918	C	6910	9'6	11°9145	3°0704
38022	C	6691	9'4	13°9363	15°4774	38427	C	6806	9'4	19°8693	4°7876	39039	C	6911	8'5	12°1017	18°2141
						38527	C	6807	9'3	20°3418	20°0109	38919	C	6912	var.	12°4226	3°0407
						38405	C	6809	8'9	21°0526	0°8224						
						38454	C	6813	9'3	22°5062	8°9601						

OXFORD ASTROGRAPHIC CATALOGUE, 1900-0.

(214)

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.						
	Number.	Mag.	1900°0.			Number.	Mag.	1900°0.			Number.	Mag.	1900°0.				
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.			
Plate 1814. R.A. 15 ^h 36 ^m					R.A. 15 ^h 54 ^m (continued)					R.A. 16 ^h 12 ^m (continued)							
40948	C	7263	8.9	1.1679	25.4758	41316	C	7404	4.0	11.5314	3.0128	42099	C	7540	8.8	4.4279	22.4798
40896	C	7266	8.1	2.0830	21.9317	41386	C	7405	9.5	11.5888	11.5948	41939	C	7542	8.3	5.3403	4.9417
40748	C	7270	9.0	3.3130	7.1017	41387	C	7408	9.3	12.4188	11.5954	42077	C	7543	9.0	5.6358	21.1612
40805	C	7271	9.5	3.4587	12.3165	41329	C	7410	9.5	12.6972	3.7875	42068	C	7544	9.2	5.6642	19.3614
40704	C	7273	8.9	4.7380	2.0955	41340	C	7413	9.5	13.8701	5.1242	41972	C	7545	9.2	5.7514	7.5916
40883	C	7274	8.8	6.2658	20.6581	41317	C	7415	8.6	13.9523	2.6769	42118	C	7547	9.2	6.2450	24.8656
40809	C	7283	8.6	11.0402	12.3895	41351	C	7417	9.0	14.0551	6.4875	42120	C	7548	7.5	7.1605	24.8430
40829	C	7286	8.6	14.3257	14.3140	41403	C	7420	8.0	14.4439	13.1815	41986	C	7557	6.5	12.2326	9.0675
40725	C	7287	9.0	14.5084	3.9557	...	C	7422	8.9	14.8482	0.3732	42105	C	7561	8.7	13.6620	22.7278
40908	C	7288	9.3	15.1837	23.0093	41341	C	7428	9.0	15.2307	4.8277	42091	C	7565	9.1	14.8962	21.9214
40853	C	7296	8.0	16.8595	16.7892	41444	C	7436	9.2	18.7066	17.8078	42022	C	7567	8.9	15.1047	13.9620
40727	C	7297	9.0	17.4796	3.9303	41333	C	7439	9.5	20.1773	4.6016	41976	C	7569	8.4	15.2300	7.5231
40877	C	7300	9.0	19.6558	19.6047	41446	C	7446	8.4	20.8897	17.7329	42023	C	7570	9.2	15.3723	13.5969
40720	C	7299	8.5	19.7570	2.9590	41447	C	7447	9.5	20.9659	17.9407	42013	C	7573	7.7	16.3207	11.6852
40891	C	7306	9.0	20.5944	20.2849	41354	C	7445	8.2	20.9747	6.1094	42084	C	7583	9.1	20.4419	20.8464
40913	C	7307	8.5	21.3921	22.6472	41512	C	7448	8.9	21.0075	24.8653	41977	C	7585	9.5	21.0572	8.1134
40863	C	7310	9.0	22.0306	17.7886	41382	C	7449	9.0	21.4774	10.0155	41989	C	7588	9.2	21.1966	8.8646
40760	C	7311	9.1	22.2423	7.9531	41503	C	7452	9.0	21.7161	23.8661	41978	C	7589	9.4	21.7996	8.0510
40777	C	7317	9.2	23.9480	8.7068	...	C	7456	9.0	24.7348	0.4013	41918	C	7592	8.9	22.9684	1.2800
40713	C	7320	9.0	24.8373	1.6770							41979	C	7594	7.5	23.8483	7.9123
												41980	C	7598	9.3	25.1535	7.5843
Plate 1815. R.A. 15 ^h 45 ^m					Plate 1794. R.A. 16 ^h 3 ^m					Plate 1795. R.A. 16 ^h 21 ^m							
41071	C	7317	9.2	0.0263	8.7255	41601	C	7456	9.0	0.6598	0.4066	42276	C	7598	9.3	1.2110	7.5810
41008	C	7320	9.0	0.7858	1.6803	41796	C	7466	9.5	4.0590	19.2188	42267	C	7600	9.3	2.4245	7.1719
41193	C	7326	7.9	2.5395	22.4223	41693	C	7467	9.5	4.0748	8.9990	42396	C	7601	9.1	2.7346	21.9323
41091	C	7334	8.8	7.5282	10.9974	41611	C	7470	9.1	5.5300	1.5249	42285	C	7603	8.5	2.8616	8.3213
41057	C	7335	8.3	7.7605	7.4254	41694	C	7473	9.5	6.6551	8.9819	42257	C	7607	9.2	3.3653	6.2745
41010	C	7339	9.2	8.1194	2.2506	41723	C	7474	8.9	7.3249	11.9427	42385	C	7609	9.5	4.4566	21.1907
41196	C	7342	7.3	9.2600	22.3141	41613	C	7475	9.0	7.4569	1.8374	42286	C	7610	8.8	4.4856	8.3583
41012	C	7344	9.0	9.5507	1.6213	41603	C	7477	8.9	7.8949	0.9697	42430	C	7611	9.5	5.1242	25.0875
41050	C	7349	9.5	11.3020	6.5389	41798	C	7479	9.5	8.3546	20.0485	42298	C	7613	9.4	5.3216	9.4425
41150	C	7350	var.	11.5573	18.5599	41841	C	7485	9.3	13.3135	23.7031	42399	C	7615	8.3	6.8780	21.3531
41207	C	7352	9.0	13.3359	23.5038	41766	C	7489	9.3	14.6274	16.4317	42301	C	7618	9.3	7.6250	9.3950
41066	C	7358	8.7	14.7085	8.3267	41629	C	7497	9.3	18.2136	2.3750	42260	C	7623	9.1	8.7809	5.4047
41067	C	7360	9.5	15.3931	8.2641	41620	C	7498	9.0	18.2477	2.0973	42371	C	7625	9.3	9.8931	18.5807
41034	C	7364	9.0	18.0009	3.9861	41768	C	7500	8.7	18.6841	16.8210	42402	C	7626	9.0	9.9580	22.2052
41227	C	7370	8.3	20.6375	24.3355	41696	C	7501	7.5	18.9061	8.6758	42278	C	7628	8.5	10.0383	7.8433
41097	C	7371	9.1	20.7714	11.8014	41794	C	7503	9.0	19.0697	18.3137	42386	C	7629	6.8	10.1226	20.3833
41099	C	7374	9.4	21.2118	11.7596	41687	C	7502	9.4	19.0756	8.1996	42373	C	7635	8.5	11.5888	19.2447
41153	C	7375	8.9	21.4069	17.7018	41639	C	7505	8.0	19.6342	3.8328	42325	C	7636	9.3	11.6426	12.2810
41228	C	7377	8.0	21.5924	23.8916	41608	C	7513	6.7	20.8680	1.0524	42331	C	7637	8.6	12.2432	12.7975
41061	C	7379	8.6	23.5458	6.8296	41632	C	7524	7.3	23.7101	2.8864	42380	C	7641	9.3	13.7271	19.3244
41117	C	7380	8.1	23.6398	14.3796	41821	C	7529	7.3	24.4859	21.4429	42302	C	7644	9.5	14.8230	9.4106
41229	C	7383	8.3	24.3156	23.6426	41690	C	7531	9.4	25.0410	7.6729	42434	C	7647	9.1	15.0496	24.9859
41128	C	7387	9.0	25.8324	15.4522	41664	C	7534	9.3	25.5370	5.5379	42327	C	7649	9.1	15.4723	11.3401
						41733	C	7535	8.6	25.7034	11.5268	42292	C	7651	9.0	16.9348	9.2676
Plate 1816. R.A. 15 ^h 54 ^m					Plate 1818. R.A. 16 ^h 12 ^m					42245	C	7652	9.1	17.1106	4.7469		
41496	C	7383	8.3	0.6692	23.6521	42087	C	7529	7.3	0.7990	21.4497	42333	C	7653	9.1	17.5293	12.8306
41413	C	7387	9.0	2.0347	15.4348	41971	C	7531	9.4	1.1000	7.6716	42448	C	7654	9.0	17.5574	25.6505
41414	C	7389	9.3	2.7894	15.3373	41947	C	7534	9.3	1.5566	5.5280	42390	C	7655	9.0	17.6936	20.6728
41464	C	7397	8.0	6.6453	21.6042	42008	C	7535	8.6	1.8334	11.5126	42230	C	7657	8.9	18.9412	2.3263
41337	C	7398	8.0	7.4282	5.1194							42266	C	7667	9.0	21.7909	5.5921
41457	C	7403	9.4	11.1476	20.1073							42211	C	7674	9.3	25.2452	0.4178

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.	
			ξ.	η.				ξ.	η.				ξ.	η.
Plate 1831. R.A. 16 ^h 30 ^m					R.A. 16 ^h 39 ^m (continued)					R.A. 16 ^h 57 ^m (continued)				
42501	C 7674	9.3	1'1704	0'4141	43064	C 7825	9.2	24'4671	23'9887	43460	C 7906	9.2	2'1121	4'5071
42722	C 7676	8.5	2'4183	22'1275	42920	C 7824	9.4	24'4824	10'9009	43603	C 7907	8.8	2'2117	18'7683
42739	C 7677	9.4	3'0650	23'0421	43011	C 7826	8.2	24'6774	19'9712	43413	C 7918	9.2	3'8180	1'6549
42672	C 7679	9.4	4'1743	17'8967	42819	C 7830	9.1	25'3060	1'5760	43414	C 7919	9.5	4'1192	1'5915
42614	C 7680	8.8	4'3148	11'5593						43677	C 7920	9.3	4'2687	25'4257
42723	C 7683	8.9	5'2870	21'2980						43416	C 7923	9.5	5'2973	1'8048
42707	C 7689	9.1	6'8838	21'0170						43592	C 7925	8.6	6'0807	17'4706
42762	C 7696	9.0	8'6560	24'3377						43583	C 7927	9.0	6'5982	17'1312
42620	C 7698	7.9	8'7905	12'0608						43517	C 7930	8.3	7'1256	10'5755
42518	C 7700	9.3	9'5293	2'1343	Plate 1841. R.A. 16 ^h 48 ^m					43502	C 7931	9.3	7'4371	8'8447
42635	C 7702	8.8	10'5332	13'0677	43325	C 7823	9.1	0'3291	24'1184	43585	C 7933	9.3	7'8703	17'3021
42781	C 7705	9.1	11'3601	25'2200	43189	C 7824	9.4	0'6011	10'9092	43491	C 7938	9.1	9'5806	7'7276
42642	C 7716	9.0	16'8073	13'9229	43317	C 7825	9.2	0'8271	23'9954	43485	C 7940	7.2	10'0088	6'5825
42643	C 7719	8.5	17'5731	13'9294	43276	C 7826	8.2	0'9633	19'9746	43433	C 7941	9.4	10'8128	3'1938
42623	C 7723	9.5	18'7242	11'9269	43108	C 7830	9.1	1'2524	1'5712	43404	C 7944	9.4	11'8322	1'0256
42508	C 7724	9.3	19'2187	0'4332	43222	C 7832	8.1	2'7105	13'7338	43656	C 7947	9.0	12'5978	24'0814
42759	C 7725	9.3	19'4768	24'1668	43127	C 7835	9.4	3'7912	3'1483	43668	C 7949	9.1	13'0922	25'3927
42510	C 7730	8.2	21'0886	0'4762	43296	C 7841	9.5	6'5588	21'5663	43682	C 7952	9.0	13'3852	25'5405
42639	C 7732	9.4	21'3032	12'3976	43278	C 7842	8.7	6'8408	19'1944	43463	C 7950	6.6	13'3913	5'1326
42680	C 7733	9.1	22'2805	17'9077	43328	C 7843	9.5	6'8590	24'6386	43536	C 7951	9.1	13'4189	13'1471
42791	C 7735	7.6	22'5551	25'4969	43279	C 7844	7.8	7'1120	19'6936	43436	C 7954	9.3	14'1751	3'2826
42571	C 7734	8.0	22'7127	7'8210	43101	C 7845	9.1	7'5633	0'9637	43646	C 7957	9.5	15'3595	22'9263
42681	C 7736	9.1	22'7280	18'1307	43129	C 7846	9.3	7'6124	3'7886	43647	C 7962	9.4	16'5405	23'1280
42536	C 7737	6.5	23'0310	3'9745	43117	C 7849	8.9	7'9776	2'6669	43529	C 7968	9.0	17'8092	12'0302
42572	C 7738	8.8	23'6164	7'4820	43152	C 7851	9.1	8'3966	5'1217	43540	C 7975	9.4	18'3568	12'7221
42584	C 7741	9.0	24'0128	8'9030	43298	C 7850	8.9	8'4035	21'7012	...	C 7974	9.4	18'4085	0'3376
Plate 1832. R.A. 16 ^h 39 ^m					43226	C 7852	8.9	8'8115	13'3505	43541	C 7979	8.6	19'1566	13'1827
42891	C 7741	9.0	0'0947	8'9204	43141	C 7856	8.5	10'1045	4'3247	43442	C 7980	9.2	21'0410	2'6253
43071	C 7746	9.1	2'5926	25'4574	43299	C 7859	8.8	11'5091	21'3171	43443	C 7985	8.3	22'3348	3'3920
42810	C 7747	9.0	2'6812	2'0400	43254	C 7860	7.0	11'6060	16'4771	43509	C 7987	9.4	22'9596	10'0727
43012	C 7748	9.4	2'8206	20'7128	43111	C 7863	9.5	12'2362	1'6559	43578	C 7989	7.3	23'0365	15'7786
42935	C 7750	9.1	2'9308	12'6029	43336	C 7864	8.9	12'2673	25'5269	43652	C 7990	8.1	23'1178	22'8546
42831	C 7754	9.1	3'8739	3'6592	43313	C 7865	6.8	12'6811	22'9950	43469	C 7993	9.0	23'7940	4'7817
43000	C 7758	9.3	5'5244	19'4375	43218	C 7867	9.1	12'9832	12'1770	43411	C 7994	8.2	23'9250	1'1841
42980	C 7766	9.4	7'8972	18'3096	43284	C 7868	9.0	13'6945	21'0929	43581	C 8000	8.6	25'0005	15'7428
42952	C 7768	9.1	8'0260	14'6564	43264	C 7870	9.0	15'5197	17'8703	Plate 1842. R.A. 17 ^h 6 ^m				
43048	C 7767	8.9	8'0285	23'9501	43186	C 7884	8.5	18'5400	10'0507	43872	C 8000	8.6	1'2084	15'7409
42812	C 7771	6.0	9'1394	2'3207	43197	C 7886	9.4	18'9037	10'7573	43748	C 8006	9.5	2'7017	4'2549
42824	C 7775	9.5	10'5483	3'0443	43108	C 7887	9.2	19'1208	10'4794	43800	C 8011	9.1	3'4150	8'8382
43050	C 7782	8.9	13'1335	24'1519	43167	C 7888	9.1	19'2548	6'6263	43954	C 8012	9.1	3'6440	23'5986
42901	C 7783	9.4	13'2421	9'8287	43175	C 7890	9.1	19'6051	7'9854	43801	C 8015	9.2	4'2792	8'4378
42871	C 7786	9.5	14'0187	6'5185	43259	C 7892	7.6	20'7748	16'5846	43975	C 8016	8.5	4'5991	25'0500
42806	C 7787	9.5	14'3408	0'9252	43316	C 7893	8.6	20'9592	22'4210	43724	C 8017	8.9	4'7001	2'7259
42938	C 7792	9.5	15'2288	13'4016	43290	C 7895	9.4	21'2395	21'1676	43956	C 8018	9.0	4'8966	23'8810
42984	C 7794	8.7	15'7576	18'1277	43143	C 7896	9.3	22'4339	5'1281	43793	C 8021	9.5	5'0857	8'0068
43008	C 7798	7.1	18'5510	19'4950	43162	C 7900	8.3	24'0695	5'4101	43873	C 8026	8.0	6'4408	16'0395
42848	C 7802	8.2	19'6803	4'7172	43115	C 7901	9.3	24'8900	1'5575	43859	C 8027	9.0	6'5449	15'0920
42849	C 7804	8.6	19'9708	5'3260	43294	C 7902	8.9	25'1163	20'5765	43750	C 8029	8.0	7'0675	4'2237
42850	C 7809	9.1	21'3621	4'8246	43188	C 7904	9.3	25'6396	9'6853	43739	C 8031	7.7	7'6053	3'7822
42840	C 7810	8.5	21'8308	4'3065	43275	C 7907	8.8	25'9478	18'7888	43884	C 8035	7.0	8'7780	17'4117
42886	C 7811	9.1	21'8994	8'4274	Plate 1829. R.A. 16 ^h 57 ^m					43860	C 8036	9.0	8'8120	15'0076
42828	C 7814	9.3	22'7044	3'4542	43471	C 7900	8.3	0'0870	5'4268	43944	C 8037	9.0	9'1240	22'9904
42817	C 7815	8.7	22'8910	2'3736	43412	C 7901	9.3	0'8364	1'5598	43817	C 8039	8.8	10'1162	10'0059
42829	C 7818	9.3	23'4461	3'3881	43622	C 7902	8.9	1'4132	20'5716	43717	C 8041	9.1	11'4176	1'2512
43022	C 7820	9.0	23'4936	20'6687	43506	C 7904	9.3	1'7356	9'6727	43769	C 8042	9.3	11'7031	5'2030
43063	C 7823	9.1	23'9669	24'1023						43770	C 8044	9.4	12'0558	5'2054
										43756	C 8052	9.1	15'7002	4'6155

Oxford No.					Cambridge A. G. C.					Oxford No.					Cambridge A. G. C.														
+28°.					1900°0.					+28°.					1900°0.														
Number.					Mag.					Number.					Mag.														
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R.A. 17 ^h 6 ^m (continued)										Plate 1827. R.A. 17 ^h 24 ^m										R.A. 17 ^h 33 ^m (continued)									
43947	C	8054	9.4	16.1734	22.9774	44508	C	8172	9.1	0.4457	11.5369	44859	C	8311	7.0	11.3828	8.5726												
43789	C	8060	9.5	17.9573	6.3137	44502	C	8173	9.0	0.6678	11.2208	44740	C	8312	9.1	11.4263	2.8573												
43758	C	8061	9.1	18.0252	4.7023	44529	C	8174	9.0	0.8018	14.6961	44723	C	8314	9.1	11.7098	2.0811												
43760	C	8062	9.2	18.2891	4.9425	44530	C	8176	9.4	1.5800	14.5595	44891	C	8319	9.0	13.3114	10.3777												
43866	C	8068	9.0	19.5598	14.4474	44646	C	8178	8.9	2.7431	24.8024	44929	C	8321	9.2	13.6521	12.3784												
43888	C	8069	8.9	20.3338	17.7078	44647	C	8179	9.3	3.2079	24.9865	44874	C	8326	9.5	15.1568	9.1827												
43932	C	8070	8.7	20.4598	21.6266	44495	C	8184	8.4	6.0658	9.7636	44862	C	8330	9.0	16.8673	8.7507												
43854	C	8073	8.1	21.4512	13.6184	44541	C	8185	8.5	6.1402	15.9270	45152	C	8333	8.9	17.9316	24.9923												
43966	C	8075	9.0	22.0257	23.3611	44460	C	8187	9.2	6.8312	5.8629	44790	C	8335	9.1	18.4251	4.4899												
43968	C	8078	8.7	23.4978	24.0710	44568	C	8188	8.2	6.9562	19.1503	44747	C	8336	7.5	18.6060	2.3253												
43969	C	8078	8.7	23.4978	24.0710	44461	C	8189	7.6	7.0503	5.7280	44992	C	8337	9.2	18.6584	16.4605												
43882	C	8080	9.3	23.9095	16.3437	44402	C	8191	6.5	7.6736	0.5878	44864	C	8340	9.3	19.0148	8.3330												
43868	C	8083	8.9	24.4181	14.3275	44617	C	8195	8.8	9.1514	22.4828	44934	C	8342	9.2	19.4113	13.1721												
43855	C	8086	8.4	25.5458	14.1369	44446	C	8196	7.7	9.2889	4.7921	44821	C	8345	9.3	20.0488	6.2528												
						44631	C	8197	9.0	9.7484	23.9401	44976	C	8351	9.0	22.3531	16.2008												
						...	C	8199	9.0	9.8757	0.1134	44826	C	8354	9.4	22.7198	6.2222												
						44417	C	8201	9.5	11.3178	1.5599	44977	C	8355	9.4	22.7790	15.9753												
						44595	C	8203	8.3	11.4661	20.9680	44883	C	8364	9.0	25.0336	10.1306												
						44418	C	8208	8.4	11.9017	2.1532	44981	C	8367	8.0	25.3283	16.2145												
						44583	C	8209	9.4	12.3679	19.5393	44915	C	8366	8.8	25.3608	12.0659												
						44498	C	8212	8.3	13.3228	10.0047	44721	C	8365	9.0	25.3923	1.5958												
						44585	C	8213	9.0	13.5266	19.6766	44732	C	8370	9.4	25.7125	1.4309												
						44565	C	8218	8.7	14.3990	17.8602																		
						44519	C	8221	9.3	14.7499	12.7435																		
						44521	C	8224	9.3	15.1626	12.8418																		
						44637	C	8226	9.5	15.3641	24.2570																		
						44475	C	8227	9.1	15.8786	7.1393																		
						44522	C	8230	7.9	16.4015	12.5235																		
						44638	C	8231	8.4	16.4592	23.7287																		
						44566	C	8237	9.2	17.1180	18.0191																		
						44486	C	8238	8.3	17.3198	8.1077																		
						44477	C	8239	9.1	17.8336	7.3667																		
						44545	C	8243	9.1	19.1102	15.7123																		
						44442	C	8246	9.1	20.0244	4.2757																		
						44546	C	8252	8.4	21.5900	15.5675																		
						44479	C	8258	9.1	23.2095	6.7120																		
						44574	C	8260	5.7	23.2856	18.7962																		
						44469	C	8259	9.1	23.3864	6.2925																		
						44640	C	8262	9.3	23.5626	24.3416																		
						44642	C	8267	8.3	24.7570	23.5620																		
						44576	C	8268	9.4	25.4718	19.3610																		
						44481	C	8269	9.3	25.9442	6.8385																		

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[illegible]

Oxford No.		Cambridge A. G. C.				Oxford No.		Cambridge A. G. C.				Oxford No.		Cambridge A. G. C.			
+28°.		Number.	Mag.	1900°o.		+28°.		Number.	Mag.	1900°o.		+28°.		Number.	Mag.	1900°o.	
				ξ'.	η'.					ξ'.	η'.					ξ'.	η'.
R.A. 18 ^h 45 ^m (continued)						R.A. 18 ^h 54 ^m (continued)						R.A. 19 ^h 3 ^m (continued)					
48945	C	9271	8.7	14.2248	8.1608	49789	C	9451	9.2	17.2853	6.3550	51138	C	9550	9.1	6.5153	3.3203
49099	C	9274	8.5	14.8030	14.2465	49473	C	9452	8.8	17.3248	2.1934	52127	C	9552	9.2	6.6995	23.6958
49148	C	9275	9.1	14.9982	16.6196	50434	C	9454	9.2	17.5617	16.5353	51139	C	9554	9.2	6.7681	3.6206
49178	C	9278	8.9	15.5610	17.4566	50496	C	9455	9.3	17.6614	17.9257	51324	C	9557	9.3	7.4108	7.6631
49376	C	9280	9.2	16.0162	25.9180	50870	C	9468	8.1	19.0415	24.0310	51612	C	9559	7.7	7.5376	13.4583
49295	C	9287	9.0	17.0102	22.2550	50930	C	9471	8.4	19.1037	24.8486	51325	C	9560	9.4	7.5958	7.5943
49180	C	9288	8.0	17.4412	17.9032	50617	C	9472	7.7	19.1531	19.4455	52185	C	9562	9.0	7.9572	24.0586
49103	C	9289	9.2	17.6349	15.0390	49795	C	9469	8.9	19.2070	7.0652	51387	C	9563	8.9	8.0664	8.2368
48949	C	9291	8.1	17.9646	8.3649	50436	C	9472a	9.0	19.5572	16.5986	51185	C	9570	7.9	9.2682	4.0620
48837	C	9294	9.2	18.1440	4.4368	49545	C	9477	9.1	20.3911	3.1914	51109	C	9571	8.0	9.3400	2.5909
49105	C	9297	9.4	19.3210	14.8445	49433	C	9478	8.7	20.4584	0.4359	52192	C	9577	8.0	10.2164	24.5245
49249	C	9301	6.6	20.0203	20.9847	50811	C	9481	9.0	20.6181	22.6586	51968	C	9578	7.8	10.2688	20.9883
49251	C	9307	8.4	21.1333	20.8117	49485	C	9483	8.2	21.5743	2.2122	51110	C	9579	9.3	10.4343	3.0014
48779	C	9308	7.6	21.3037	2.6782	50381	C	9487	7.0	21.8206	16.2597	51827	C	9581	9.0	11.1545	17.8511
48805	C	9308a	9.2	21.3159	3.6290	49610	C	9490	8.9	22.3764	4.0342	51334	C	9582	9.0	11.3165	7.7830
48780	C	9309	9.2	21.4590	2.5446	49550	C	9491	9.2	22.4399	2.9476	51921	C	9585	9.0	11.7001	19.7859
49106	C	9314	9.1	21.5686	14.4089	50196	C	9493	8.3	22.9110	12.7133	51112	C	9586	9.5	11.8093	2.3397
48806	C	9315	9.2	21.8926	3.8568	50254	C	9497	9.1	23.0869	14.1751	51869	C	9588	5.6	12.0954	18.6474
48982	C	9322	9.2	22.4347	9.3989	49681	C	9496	8.4	23.1769	4.7027	51659	C	9589	9.2	12.2521	14.4642
49013	C	9328	9.3	23.8344	10.6310	50822	C	9501	9.0	23.1837	23.2169	51396	C	9591	9.2	12.6575	8.1646
49279	C	9331	9.3	24.1062	21.5758	49551	C	9499	9.1	23.3559	2.9331	51397	C	9593	8.7	12.8724	8.2706
49307	C	9338	9.0	25.2227	22.1649	50074	C	9504	9.3	23.9506	11.3318	52251	C	9594	8.6	13.0870	25.5534
Plate 2551. R.A. 18 ^h 54 ^m						49928	C	9506	9.0	24.3720	8.9086	51660	C	9599	9.5	13.7362	14.1185
						50256	C	9508	8.5	24.4118	13.8872	51832	C	9604	9.0	14.0023	17.9535
						49929	C	9507	8.8	24.4140	9.0263	51490	C	9605	9.0	14.6446	10.4648
						50078	C	9509	9.3	24.4700	10.8606	51875	C	9606	9.0	14.6512	18.4625
						50324	C	9512	9.5	25.0899	15.1855	51719	C	9613	8.8	15.5666	15.7132
						50081	C	9513	9.3	25.2675	11.2811	51721	C	9621	9.0	16.2524	15.7951
						...	C	9515	9.4	25.6566	1.3974	51025	C	9620	8.0	16.3090	0.2302
						...	C	9517	9.4	25.6708	15.3449	52207	C	9623	8.9	16.9168	24.4097
						...	C	9518	9.1	25.8565	2.0878	51074	C	9624	8.9	17.1638	1.4456
						...	C	9519	9.1	25.8956	16.4902	51729	C	9625	8.5	17.7235	15.9954
Plate 1222. R.A. 19 ^h 3 ^m						51983	C	9627	9.0	18.1548	20.3792	51283	C	9630	8.9	18.4056	6.8189
						52102	C	9640	9.3	19.2057	22.1102	51029	C	9639	9.5	19.3058	0.2872
						51988	C	9641	9.2	19.4916	20.4563	51849	C	9649	9.0	20.8543	17.1169
						51458	C	9648	9.0	20.7117	9.6409	51737	C	9652	8.8	21.8282	15.4746
						51849	C	9649	9.0	20.8543	17.1169	51670	C	9653	9.0	21.8852	15.0670
						51737	C	9652	8.8	21.8282	15.4746	51740	C	9659	8.9	22.5960	15.2196
						51670	C	9653	9.0	21.8852	15.0670	52109	C	9660	9.4	22.7337	22.9455
						51740	C	9659	8.9	22.5960	15.2196	51167	C	9663	9.3	23.4746	3.6584
						52109	C	9660	9.4	22.7337	22.9455	51508	C	9665	9.3	23.7758	10.4952
						51167	C	9663	9.3	23.4746	3.6584	51802	C	9666	8.6	23.7846	16.6858
51508	C	9665	9.3	23.7758	10.4952	52265	C	9668	9.4	24.0168	25.4264						
51802	C	9666	8.6	23.7846	16.6858	52266	C	9671	9.5	24.1454	25.3784						
52265	C	9668	9.4	24.0168	25.4264	52226	C	9672	9.1	24.2086	24.8517						
52266	C	9671	9.5	24.1454	25.3784	52227	C	9674	9.5	24.2429	25.0392						
52226	C	9672	9.1	24.2086	24.8517	51037	C	9670	9.0	24.3596	0.9724						
52227	C	9674	9.5	24.2429	25.0392	51038	C	9673	9.1	24.5024	0.1474						
51037	C	9670	9.0	24.3596	0.9724	51170	C	9680	9.0	25.0010	3.2947						
51038	C	9673	9.1	24.5024	0.1474	51307	C	9685	9.1	25.3596	6.3450						
51170	C	9680	9.0	25.0010	3.2947	51516	C	9688	9.2	25.7583	10.4400						
51307	C	9685	9.1	25.3596	6.3450	51309	C	9689	9.1	25.9997	6.5688						
51516	C	9688	9.2	25.7583	10.4400												
51309	C	9689	9.1	25.9997	6.5688												

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
Plate 1223. R.A. 19 ^h 12 ^m					R.A. 19 ^h 12 ^m (continued)					R.A. 19 ^h 21 ^m (continued)				
...	C 9666	8.6	0°0101	16°7066	52703	C 9817	9.4	21°4254	20°2522	53237	C 9933	9.0	11°6636	9°1363
52302	C 9670	9.0	0°2953	0°9842	52387	C 9819	9.0	21°9157	5°4729	53624	C 9934	9.4	11°6682	16°9931
52793	C 9668	9.4	0°4034	25°4414	52634	C 9821	9.2	22°2921	17°6417	52910	C 9936	9.0	12°0000	0°7925
...	C 9673	9.1	0°4228	0°1568	52774	C 9823	9.2	22°9012	23°1997	53957	C 9937	8.7	12°1457	24°2621
52794	C 9671	9.5	0°5311	25°3912	52311	C 9822	9.5	23°1252	1°0507	53886	C 9940	9.0	12°5068	21°9453
52775	C 9672	9.1	0°5846	24°8633	52806	C 9828	8.9	23°3871	25°2575	53841	C 9941	9.1	12°5335	21°8746
52776	C 9674	9.5	0°6225	25°0499	52636	C 9829	8.2	23°5045	17°5715	53189	C 9942	9.3	12°5854	8°7964
52342	C 9680	9.0	0°9794	3°2948	52608	C 9830	8.7	23°5655	16°6727	53044	C 9943	9.0	12°7083	5°7270
52388	C 9685	9.1	1°3941	6°3384	52705	C 9834	9.0	23°8275	20°5399	53338	C 9952	9.3	14°0582	11°9814
52482	C 9688	9.2	1°8683	10°4253	52808	C 9837	9.2	23°8554	25°5931	53379	C 9954	9.3	14°1698	12°6598
52389	C 9689	9.1	2°0382	6°5502	52479	C 9835	7.9	23°9824	9°7259	53851	C 9961	9.1	14°8288	21°8121
52532	C 9692	9.2	2°5431	13°1645	52324	C 9833	9.2	24°0317	1°6964	(C 9964	9.2	15°1392	19°7369	
52588	C 9693	9.5	2°6321	16°9369	52707	C 9838	9.0	24°0900	20°2445	(C 9965	8.0	15°1419	19°7209	
52733	C 9702	9.5	4°0044	22°4590	52681	C 9844	9.4	24°9005	19°7009	53755	C 9963	9.5	15°1945	0°4577
52393	C 9703	8.9	4°0710	6°7046	Plate 474. R.A. 19 ^h 21 ^m									
52438	C 9704	9.1	4°2049	8°3921										
52643	C 9705	9.1	4°4939	18°2660	53210	C 9835	7.9	0°0794	9°7437	53296	C 9996	9.1	19°1649	21°8307
52413	C 9707	8.6	4°6312	7°3633	53768	C 9834	9.0	0°1240	20°5591	53860	C 9996	9.1	19°1649	21°8307
52591	C 9709	9.0	4°7525	16°6936	53973	C 9837	9.2	0°2450	25°6113	53932	C 10001	8.9	19°6721	23°0495
52614	C 9710	9.2	4°9239	17°8339	53769	C 9838	9.0	0°3810	20°2591	53644	C 10003	9.0	19°8386	17°1887
52305	C 9711	9.4	4°9860	1°0082	53723	C 9844	9.4	1°1813	19°7001	53536	C 10006	9.0	20°4483	15°5576
52796	C 9712	7.0	5°1218	25°7627	53772	C 9851	9.0	2°6369	19°9867	53765	C 10009	9.0	21°1953	19°6270
52644	C 9713	9.0	5°3755	18°5508	52961	C 9852	9.4	2°8256	3°8269	53904	C 10011	9.1	21°4787	22°0165
52645	C 9714	9.4	5°4354	18°9447	53310	C 9853	9.0	3°1071	11°5683	53255	C 10010	8.2	21°5269	9°6268
52394	C 9717	8.8	5°7538	6°9984	53728	C 9854	9.3	3°2609	19°6767	53021	C 10016	9.2	21°8526	4°8348
52758	C 9720	9.5	6°4247	24°0750	53820	C 9859	9.3	3°8789	21°5245	53936	C 10017	9.3	21°8881	23°1686
52737	C 9722	9.2	6°4970	22°6252	52962	C 9862	8.8	4°0948	4°0325	53937	C 10018	9.5	22°0775	23°5289
52759	C 9725	8.4	6°6890	24°0612	53070	C 9867	9.0	4°5317	6°9986	52959	C 10019	9.0	22°2806	2°9455
52346	C 9726	8.9	6°7354	3°8578	52902	C 9870	9.2	4°5788	0°4798	53589	C 10020	8.7	22°4147	16°3957
52760	C 9729	9.5	7°3303	24°0618	53778	C 9868	9.3	4°6012	20°2800	53815	C 10022	8.8	22°7990	20°5794
52349	C 9731	8.9	7°9560	3°5272	53779	C 9871	9.5	4°7584	20°4224	53256	C 10026	8.0	23°8146	9°7156
52670	C 9735	8.6	8°6040	19°1487	53785	C 9875	9.5	5°8283	19°9539	53816	C 10028	9.3	23°9119	20°1203
52558	C 9739	9.2	9°2194	15°0239	53981	C 9876	9.0	6°2471	24°9180	53066	C 10032	9.0	24°5199	5°7697
52717	C 9743	9.0	9°4704	21°6860	52904	C 9877	8.0	6°2693	0°6434	...	C 10036	9.0	25°5278	2°9335
52382	C 9746	9.0	9°6823	5°9051	53560	C 9879	9.4	6°4316	16°3989					
52493	C 9749	7.2	10°2831	10°4411	53225	C 9880	9.3	6°5287	9°5659					
52575	C 9750	7.9	10°3354	15°6557	53124	C 9881	9.2	6°5922	7°4477					
52740	C 9755	9.3	11°2414	22°2140	53611	C 9886	9.2	7°0368	17°0027					
52520	C 9761	8.7	11°8501	12°6422	53788	C 9891	9.2	7°3386	19°9755					
52783	C 9763	8.0	12°1761	24°3880	53915	C 9895	9.4	7°5409	23°2506					
52741	C 9764	8.8	12°2037	22°5298	53984	C 9897	9.0	7°8756	25°4461					
52621	C 9765	8.7	12°3661	17°5743	52907	C 9899	9.4	7°9691	0°2220					
52742	C 9766	8.9	12°4887	22°8091	53734	C 9901	9.0	8°2468	19°0617					
52494	C 9767	9.3	12°5890	10°1901	53918	C 9905	9.4	9°1983	23°5366					
52364	C 9768	9.3	12°6240	4°3473	53275	C 9906	8.6	9°4034	10°4973					
52673	C 9769	9.0	12°6955	19°1362	53127	C 9907	9.0	9°4385	7°8237					
52365	C 9770	7.0	12°7876	4°3523	53508	C 9908	8.9	9°4507	15°0028					
52467	C 9771	6.1	12°9571	9°9917	53832	C 9910	9.5	9°8353	21°1890					
52562	C 9775	8.2	13°5403	14°2354	53130	C 9913	9.0	10°0156	7°8046					
52309	C 9781	8.8	14°7831	0°7448	53988	C 9916	9.1	10°3525	24°9628					
52801	C 9782	9.5	15°1524	25°5015	52945	C 9917	9.3	10°4174	2°0832					
52355	C 9783	9.0	15°4152	3°2842	...	C 9918	9.0	10°5080	25°9901					
52697	C 9786	8.1	16°4487	20°2780	53185	C 9920	9.3	10°7082	8°1909					
52745	C 9793	9.3	17°0048	22°7283	52925	C 9923	8.9	10°9534	1°2274					
52470	C 9792	9.0	17°0266	10°0501	53331	C 9928	7.0	11°3079	11°7008					
52471	C 9795	8.8	17°3032	9°2447	53621	C 9929	7.5	11°3429	17°6129					
52310	C 9796	8.8	17°4441	0°8954	53332	C 9930	9.2	11°4579	11°8596					
52453	C 9798	9.0	17°5799	9°0062										
52547	C 9799	9.0	17°7440	13°4086										
52454	C 9800	9.2	18°2416	8°7877										
52407	C 9805	9.0	18°7378	6°6493										
52727	C 9810	9.0	20°5488	21°7671										
52605	C 9811	9.3	20°7451	16°4788										
52506	C 9812	9.0	20°9103	11°4931										
52323	C 9813	6.8	21°1475	1°9564										

+ 28°.

OXFORD ASTROGRAPHIC CATALOGUE, 1900.0.

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
R.A. 19 ^h 30 ^m (continued)					Plate 2561. R.A. 19 ^h 39 ^m					R.A. 19 ^h 39 ^m (continued)				
54349	C 10059	8.9	5.4726	9.9063	55389	C 10213	9.4	0.7345	6.2534	55780	C 10346	9.2	16.8583	12.3348
54350	C 10060	9.1	5.6104	9.2277	55681	C 10218	9.3	1.6825	11.3385	55645	C 10348	9.4	17.1592	10.9254
54631	C 10061	8.9	5.6992	16.2330	56053	C 10219	9.3	1.8803	16.8507	55122	C 10350	9.0	17.7137	0.7867
54164	C 10063	9.0	5.8939	3.4025	55683	C 10222	9.2	1.9564	11.2547	56805	C 10353	6.9	17.7446	25.2871
54978	C 10064	9.5	6.0708	24.2700	55219	C 10223	8.8	2.1809	3.7399	56185	C 10355	9.3	18.1043	17.6080
54767	C 10066	8.0	6.4035	19.0745	56054	C 10224	9.3	2.2618	16.4488	55474	C 10356	9.2	18.2799	8.0765
54979	C 10070	9.0	7.5768	24.1804	55969	C 10229	9.5	3.3687	15.5245	55525	C 10358	9.1	18.5131	8.6918
54504	C 10074	8.2	7.9061	13.6521	55820	C 10231	9.1	3.3773	13.7778	55477	C 10365	9.3	18.9614	7.6223
54980	C 10073	9.5	7.9181	24.2600	56836	C 10233	9.5	3.6412	26.0342	55726	C 10367	9.0	19.1853	11.5267
54232	C 10076	8.8	8.4666	5.3327	55689	C 10237	8.5	3.7315	12.0239	56270	C 10370a	9.5	19.3489	19.1270
54355	C 10078	9.2	8.6203	9.9232	55341	C 10243	9.0	4.2115	6.1531	56021	C 10375	9.4	20.1163	15.7455
54356	C 10079	8.8	8.6534	9.5071	55395	C 10245	8.8	4.2882	6.8716	56724	C 10380	9.1	20.4873	24.0545
54167	C 10081	8.8	8.8664	3.5250	55971	C 10244	9.5	4.3049	15.4072	55857	C 10382	8.9	20.7232	14.0322
54827	C 10088	9.1	10.6676	20.5307	56503	C 10246	8.4	4.5058	21.4004	56891	C 10384	9.4	20.7738	25.7368
54151	C 10089	8.4	10.6858	3.0749	55104	C 10250	8.9	4.8768	0.6454	55789	C 10383	8.9	20.7878	12.8930
54639	C 10090	8.9	10.7386	16.7021	55171	C 10255	9.1	5.4230	2.2844	56819	C 10386	9.1	20.9864	24.4643
54204	C 10093	9.0	10.9544	4.9579	55977	C 10254	9.3	5.4495	15.7215	55480	C 10385	8.9	21.1078	7.9711
54298	C 10094	8.3	11.0511	7.2837	56230	C 10258	9.0	5.8572	19.2403	56467	C 10391	8.7	21.6735	21.0204
54563	C 10098	9.5	11.9758	14.7137	56143	C 10260	9.1	5.9667	17.8842	56198	C 10392	8.7	21.8454	17.7760
54515	C 10104	9.0	12.7737	13.8353	55398	C 10268	8.0	6.8600	6.9812	56822	C 10398	9.4	22.4197	24.5321
54423	C 10105	9.3	12.9686	11.2293	55454	C 10271	8.4	7.2566	7.5004	55800	C 10397	8.9	22.5220	13.0163
54878	C 10107	9.6	13.0140	21.4987	55139	C 10272	9.0	7.2884	1.3907	56035	C 10403	9.1	23.1079	15.9532
54325	C 10106	9.5	13.0297	8.8167	55703	C 10273	9.3	7.7308	12.2245	55667	C 10407	8.6	23.3792	10.6295
54691	C 10109	9.4	13.1363	17.8578	56848	C 10275	9.3	8.0077	25.6908	55489	C 10411	9.0	24.4569	8.3328
54692	C 10110	9.1	13.4380	18.0389	55281	C 10277	9.4	8.0652	4.6534	56044	C 10414	8.5	24.6913	15.9221
54603	C 10111	8.2	13.4583	15.3714	55399	C 10279	7.5	8.4424	6.6626	...	C 10421	8.6	25.7536	24.0849
54208	C 10113	8.5	13.8816	5.1789	56680	C 10280	8.7	8.6168	23.9336					
54741	C 10115	9.0	14.0219	18.1212	56419	C 10281	9.0	8.7853	20.7176					
55031	C 10117	8.8	14.5803	26.0359	55176	C 10282	9.0	8.9111	2.7406					
54881	C 10120	9.0	14.7594	21.2777	55177	C 10283	9.1	8.9257	2.5966					
54992	C 10122	8.3	14.8097	24.2006	55562	C 10284	9.3	8.9407	9.5062					
54745	C 10123	9.2	14.9360	18.2103	55180	C 10285	9.0	9.5168	2.4600					
54608	C 10124	9.4	15.1541	15.5661	55181	C 10287	7.1	9.7842	2.7684					
54327	C 10125	9.5	15.2303	8.4218	55182	C 10288	9.4	9.9774	3.1944					
54328	C 10126	9.4	15.2586	8.9402	55765	C 10289	8.9	10.1875	12.4383					
54106	C 10127	6.9	15.4042	1.0519	55709	C 10291	8.9	10.2834	11.4425					
54995	C 10131	9.3	15.5787	25.0405	55111	C 10292	9.4	10.3930	0.3800					
54954	C 10133	8.8	15.6635	23.4070	55231	C 10293	9.3	10.4296	3.5461					
54924	C 10136	9.5	16.0542	22.0759	55570	C 10294	9.2	10.6285	9.4327					
54748	C 10137	8.7	16.1168	19.0219	56521	C 10295	8.8	10.6947	22.1290					
54330	C 10140	8.6	16.4850	8.7282	55233	C 10296	9.5	10.7177	3.5233					
54367	C 10142	8.8	16.7041	9.2765	56335	C 10300	9.1	10.9732	19.4435					
54524	C 10153	9.1	17.9177	13.6937	55996	C 10301	9.4	11.2082	16.2529					
54892	C 10155	9.3	17.9560	22.0526	55113	C 10303	8.5	11.5316	1.2046					
54332	C 10156	9.3	18.1754	9.1591	55919	C 10307	8.6	11.8419	14.3285					
54110	C 10159	8.3	18.4350	1.1516	55509	C 10308	9.4	12.2108	8.9482					
54930	C 10169	9.3	19.3050	22.8715	55361	C 10309	8.2	12.2203	5.5326					
54437	C 10172	9.2	19.6610	11.6756	55637	C 10310	8.7	12.5140	10.8148					
54334	C 10175	8.0	20.0719	8.9493	55921	C 10313	9.3	12.7354	14.5623					
54337	C 10177	9.3	20.7838	8.2636	55184	C 10312	7.7	12.7486	3.0503					
54486	C 10182	8.4	21.2773	12.5855	55572	C 10315	8.7	12.9394	9.4553					
54660	C 10184	7.2	21.4011	16.3606	56433	C 10318	8.8	13.1224	20.9300					
54802	C 10187	9.0	21.4155	19.8813	55515	C 10322	9.2	14.0329	8.7711					
54220	C 10189	9.4	21.7543	5.1107	55464	C 10323	9.0	14.1028	7.8233					
54662	C 10191	8.8	22.3377	16.6335	55465	C 10324	9.0	14.1420	8.1537					
54193	C 10193	9.0	22.6772	3.4037	55845	C 10330	8.7	15.1347	14.2207					
54112	C 10194	9.3	22.7195	1.0114	56092	C 10332	9.3	15.1986	16.5749					
54663	C 10196	9.5	22.8509	16.6539	55241	C 10333	8.1	15.2740	3.4113					
54407	C 10205	9.5	23.8650	11.0439	56093	C 10334	9.3	15.4552	17.2922					
54114	C 10206	9.4	23.9824	0.5591	55418	C 10335	8.8	15.6022	6.7757					
54282	C 10213	9.4	24.7016	6.2484	55243	C 10340	9.0	16.3398	4.2276					
54446	C 10218	9.3	25.5557	11.3499	55244	C 10342	9.3	16.6006	4.1146					
54665	C 10219	9.3	25.6519	16.8651	56706	C 10344	9.1	16.6396	23.5601					
54448	C 10222	9.2	25.8310	11.2711	55245	C 10343	9.2	16.7378	3.6949					
					55644	C 10345	9.3	16.8556	11.1481					

Plate 858. R.A. 19 ^h 48 ^m				
57338	C 10411	9.0	0.5283	8.3421
57645	C 10414	8.5	0.9025	15.9259
58085	C 10421	8.6	2.1151	24.0672
57343	C 10423	7.1	2.2116	8.4019
57234	C 10424	7.7	2.3223	6.4985
57550	C 10426	8.4	2.7853	13.9768
57344	C 10429	9.3	3.0870	8.9381
57031	C 10430	9.1	3.1026	1.4829
57864	C 10441	8.9	4.8225	19.7313
57506	C 10442	8.6	5.0624	12.2222
57239	C 10444	7.0	5.1392	6.8823
57507	C 10446	9.4	5.3062	12.5169
57068	C 10449	9.1	5.5076	3.1403
57466	C 10450	9.4	5.6722	11.3028
57712	C 10451	8.0	5.8036	16.9540
57508	C 10453	8.9	5.9467	12.7528
57755	C 10454	8.4	6.1105	17.2904
58096	C 10457	8.5	6.4825	25.0180
57721	C 10464	9.3	7.1614	17.0057
57661	C 10467	7.0	7.3403	15.2542
57386	C 10476	8.8	8.5342	9.7271
57973	C 10479	9.2	9.1936	21.8040
57215	C 10484	8.8	9.5113	6.2067
58108	C 10487	9.2	9.8329	25.0062
57075	C 10488	9.2	10.0390	3.0772
57519	C 10490	9.5	10.1017	12.9779
57260	C 10491	7.9	10.3166	6.5455
58143	C 10492	9.0	10.3477	25.3985
57980	C 10494	9.0	10.6239	22.0288
57264	C 10497	9.0	11.3048	6.9346
57036	C 10498	9.5	11.3339	1.5790
57122	C 10499	8.0	11.4408	3.4527

Plate 858. R.A. 19^h 48^m

57338	C 10411	9.0	0.5283	8.3421
57645	C 10414	8.5	0.9025	15.9259
58085	C 10421	8.6	2.1151	24.0672
57343	C 10423	7.1	2.2116	8.4019
57234	C 10424	7.7	2.3223	6.4985
57550	C 10426	8.4	2.7853	13.9768
57344	C 10429	9.3	3.0870	8.9381
57031	C 10430	9.1	3.1026	1.4829
57864	C 10441	8.9	4.8225	19.7313
57506	C 10442	8.6	5.0624	12.2222
57239	C 10444	7.0	5.1392	6.8823
57507	C 10446	9.4	5.3062	12.5169
57068	C 10449	9.1	5.5076	3.1403
57466	C 10450	9.4	5.6722	11.3028
57712	C 10451	8.0	5.8036	16.9540
57508	C 10453	8.9	5.9467	12.7528
57755	C 10454	8.4	6.1105	17.2904
58096	C 10457	8.5	6.4825	25.0180
57721	C 10464	9.3	7.1614	17.0057
57661	C 10467	7.0	7.3403	15.2542
57386	C 10476	8.8	8.5342	9.7271
57973	C 10479	9.2	9.1936	21.8040
57215	C 10484	8.8	9.5113	6.2067
58108	C 10487	9.2	9.8329	25.0062
57075	C 10488	9.2	10.0390	3.0772
57519	C 10490	9.5	10.1017	12.9779
57260	C 10491	7.9	10.3166	6.5455
58143	C 10492	9.0	10.3477	25.3985
57980	C 10494	9.0	10.6239	22.0288
57264	C 10497	9.0	11.3048	6.9346
57036	C 10498	9.5	11.3339	1.5790
57122	C 10499	8.0	11.4408	3.4527

Cambridge A. G. C.					Cambridge A. G. C.					Cambridge A. G. C.				
Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.	
+28°.			ξ.	η.	+28°.			ξ.	η.	+28°.			ξ.	η.
R.A. 19 ^h 48 ^m (continued)					R.A. 19 ^h 57 ^m (continued)					R.A. 19 ^h 57 ^m (continued)				
57037	C 10501	9.4	11.8405	1.3877	58755	C 10629	9.0	1.2595	24.5435	58465	C 10819	9.0	23.2556	12.2722
58110	C 10506	8.8	12.2932	25.0811	58253	C 10630	9.4	1.2898	3.5229	58341	C 10821	9.0	23.4472	6.8938
57429	C 10509	8.5	12.9885	11.1520	58219	C 10632	9.3	1.5484	1.3623	58397	C 10822	9.2	23.4475	8.5114
57082	C 10510	9.1	13.0845	3.1963	58694	C 10634	9.3	1.9096	21.7693	58250	C 10828	8.1	24.4545	2.7020
57929	C 10515	9.0	13.2906	20.4663	58350	C 10638	8.0	2.0787	7.6181	58371	C 10830	8.9	24.7208	7.8694
57083	C 10513	8.7	13.3020	3.2066	58614	C 10650	7.0	3.3351	18.1452	58448	C 10833	7.7	25.4572	11.1988
57127	C 10514	8.9	13.3122	3.3121	58778	C 10652	9.3	3.5781	25.4139	58691	C 10835	9.0	25.4744	20.9535
57526	C 10521	7.0	13.5311	12.9548	58201	C 10657	8.0	4.4000	0.8168					
58070	C 10527	8.9	14.1037	23.7738	58669	C 10660	7.6	4.7047	20.2737					
57732	C 10528	8.5	14.3311	16.3994	58781	C 10662	9.0	4.9561	25.6942					
57734	C 10529	9.4	14.7297	16.9353	58563	C 10664	9.2	5.3454	15.9981					
57574	C 10532	8.7	15.1072	14.0364	58721	C 10666	8.9	5.7155	22.6052					
57988	C 10533	7.3	15.1126	21.8032	58592	C 10668	8.1	5.8066	17.0904					
57934	C 10535	9.5	15.2829	20.4310	58696	C 10670	8.1	6.0034	21.6309					
57011	C 10536	8.0	15.3880	0.8865	58254	C 10671	8.4	6.1251	3.8874	58841	C 10828	8.1	0.4220	2.7121
57627	C 10541	9.0	15.7367	14.6699	58455	C 10672	9.1	6.3423	12.5733	58936	C 10830	8.9	0.7835	7.8739
57737	C 10545	8.5	15.9316	17.1738	58536	C 10675	9.2	7.1576	15.3520	59020	C 10833	7.7	1.5812	11.1894
57436	C 10548	7.8	16.1476	11.0778	58257	C 10682	7.0	7.7538	3.8905	59268	C 10835	9.0	1.7826	20.9418
57364	C 10549	9.0	16.1881	8.4461	58698	C 10684	9.4	7.9036	21.0316	59021	C 10843	8.3	2.4491	11.1074
57682	C 10552	8.4	16.3349	16.0705	58762	C 10688	9.3	8.4062	24.2919	59245	C 10844	8.8	2.6293	20.6197
57276	C 10556	9.5	16.7560	7.2365	58457	C 10690	9.2	8.5336	12.6350	58941	C 10845	9.0	2.9784	7.7826
57437	C 10558	9.3	17.1757	11.0354	58507	C 10692	9.5	8.6782	14.7942	59345	C 10846	9.0	3.0968	25.3796
57438	C 10561	9.2	17.3747	10.8820	58540	C 10694	9.4	9.0015	15.2866	59043	C 10847	9.3	3.5745	12.6101
57630	C 10563	9.0	17.4451	14.4633	58785	C 10695	9.1	9.0104	25.7650	58924	C 10849	8.2	3.6524	6.9322
57841	C 10566	9.0	17.6272	18.3886	58541	C 10696	9.4	9.4855	15.7991	59248	C 10852	9.4	4.1868	20.3689
57632	C 10570	8.7	18.2312	14.5219	58764	C 10697	9.2	9.8062	24.6502	59221	C 10854	9.4	4.8857	19.7922
57581	C 10571	9.0	18.4318	13.9071	58622	C 10700	9.4	10.2077	18.5302	59249	C 10860	9.5	5.3564	20.2932
57583	C 10578	9.0	19.6359	14.0621	58508	C 10701	9.0	10.4180	14.0086	58848	C 10861	9.4	5.3579	2.1159
57052	C 10579	8.3	19.7861	1.8238	58571	C 10702	9.5	10.4238	16.0159	59346	C 10862	8.8	5.5704	25.4655
57585	C 10581	9.5	20.0423	14.2089	58409	C 10706	9.3	10.7170	9.4292	58926	C 10864	8.8	5.9093	6.1457
57789	C 10583a	9.4	20.1883	17.7623	58630	C 10710	9.5	11.1581	18.8312	58822	C 10865	9.5	6.0247	1.9003
57485	C 10592	9.1	21.0263	12.1667	58387	C 10714	9.0	11.6228	8.6374	59097	C 10867	9.2	6.4395	14.4949
57688	C 10593	9.2	21.0428	15.9050	58329	C 10717	9.3	11.8195	6.6266	59149	C 10873	9.4	7.5227	16.3741
57280	C 10594	9.2	21.3327	7.1814	58513	C 10718	9.0	11.9965	14.1144	58945	C 10877	8.7	7.7525	7.3131
57327	C 10596	9.1	21.4276	7.3990	58631	C 10725	8.9	12.6018	18.8860	59175	C 10876	9.4	7.7569	17.3239
57447	C 10597	9.2	21.5971	11.2552	58330	C 10726	5.0	12.9530	6.7225	59046	C 10879	8.3	7.7955	12.1558
57846	C 10600	9.2	21.7423	19.1489	58747	C 10727	8.1	13.0845	23.3698	59124	C 10883	9.2	7.9920	15.6718
58080	C 10607	9.5	22.1937	24.0645	58331	C 10732	9.3	13.3229	6.8468	59177	C 10899	8.3	10.0005	17.7093
57640	C 10610	9.2	22.5239	14.7934	58681	C 10734	9.0	13.6159	20.2997	...	C 10901	8.9	10.2050	0.0131
57792	C 10612	9.1	22.5451	17.6989	58767	C 10740	8.9	14.3121	24.1384	58907	C 10905	8.8	10.5236	5.2563
57535	C 10611	9.4	22.5792	12.4984	58791	C 10744	9.3	14.5458	25.2981	59152	C 10909	9.5	10.7056	16.6801
57849	C 10613	8.0	22.6256	18.9345	58748	C 10745	9.2	14.5538	23.3215	59179	C 10911	9.0	10.9302	17.5638
57695	C 10614	9.4	22.7974	16.1762	58209	C 10743	8.6	14.5863	0.9318	59005	C 10914	8.5	11.2579	10.3385
57696	C 10615	9.4	22.8520	15.3619	58210	C 10746	9.0	14.8276	0.8007	59252	C 10915	9.3	11.3661	20.6571
58002	C 10617	9.4	23.0093	21.8192	58576	C 10751	9.3	15.0906	16.4397	59076	C 10919	8.2	11.8534	13.3625
57488	C 10616	9.1	23.0528	11.8172	58577	C 10752	8.5	15.2345	16.1979	58909	C 10920	8.9	11.9777	5.8829
58128	C 10618	8.9	23.2623	24.5688	58768	C 10754	9.0	15.5874	24.4077	58827	C 10922	8.1	12.0579	1.4493
57697	C 10619	9.5	23.4920	16.0147	58730	C 10757	9.3	15.8644	22.0895	59180	C 10923	9.4	12.1007	17.3671
57285	C 10621	9.2	23.7266	6.4998	58310	C 10758	8.7	16.0610	5.3820	59051	C 10926	9.2	12.2096	12.7685
57540	C 10624	9.1	24.2859	13.1943	58662	C 10759	9.0	16.1109	19.4568	58972	C 10927	8.9	12.4195	8.2583
57795	C 10628	8.6	24.8894	17.3635	58602	C 10760	9.2	16.1800	17.6247	59318	C 10929	9.5	12.6095	23.8089
58130	C 10629	9.0	24.8894	24.5448	58552	C 10767	7.1	17.5070	15.8253	59052	C 10930	7.6	12.8079	12.6897
57141	C 10630	9.4	25.3072	3.5282	58488	C 10771	7.6	18.0466	13.3539	59320	C 10932	9.0	12.9331	23.8409
58005	C 10634	9.3	25.5904	21.7836	58366	C 10774	8.8	18.6798	7.3211	58955	C 10941	9.0	13.9773	7.9036
57028	C 10632	9.3	25.6056	1.3726	58246	C 10775	9.0	19.1185	2.7670	59104	C 10945	7.0	14.1173	14.6565
57337	C 10638	8.0	26.0206	7.6373	58268	C 10776	9.2	19.1992	3.3868	59354	C 10949	7.5	14.2322	25.8162
					58663	C 10778	9.2	19.4738	19.0140	58929	C 10948	8.5	14.2818	6.0887
					58772	C 10779	9.0	19.5218	24.5191	58974	C 10951	9.5	14.7622	8.5884
					58709	C 10782	8.8	19.8177	21.2937	58830	C 10952	8.3	15.0072	1.3752
					58687	C 10783	9.0	19.8254	20.4118	59336	C 10953	8.5	15.0613	24.2437
					58606	C 10790	8.8	20.4232	17.6253	59233	C 10954	8.9	15.0954	19.4282
					58581	C 10793	9.1	20.4662	16.4986	59130	C 10955	8.4	15.1170	15.0954
					58643	C 10796	9.5	20.5387	18.5506	59156	C 10956	9.1	15.2452	16.1372
					58269	C 10794	8.6	20.5887	3.7151	59032	C 10959	8.8	15.5105	11.7517
					58665	C 10811	9.5	22.4664	19.2443	59256	C 10960	9.1	15.6234	20.4839
Plate 462. R.A. 19 ^h 57 ^m														
58468	C 10624	9.1	0.4469	13.2060										
58588	C 10628	8.6	1.1228	17.3634										

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900'o.		+28°.	Number.	Mag.	1900'o.		+28°.	Number.	Mag.	1900'o.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
R.A. 20 ^h 6 ^m (continued)					R.A. 20 ^h 15 ^m (continued)					R.A. 20 ^h 24 ^m (continued)				
59157	C 10967	9.0	16.2871	16.3516	59924	C 11124	9.5	12.5143	24.4169	60180	C 11252	9.0	3.0493	9.4490
59324	C 10971	7.9	16.5559	23.4348	59925	C 11125	9.3	12.5361	24.1473	60472	C 11251	9.0	3.0787	22.7124
58861	C 10972	8.8	16.9171	2.7583	59681	C 11130	9.1	13.0154	12.1037	60525	C 11253	8.3	3.1507	25.7353
58896	C 10973	9.5	16.9951	4.7537	59927	C 11131	9.4	13.0477	24.2236	60280	C 11256	9.5	3.4216	13.4422
59035	C 10978	9.5	17.4444	11.7106	59474	C 11135	8.8	13.5064	3.8763	60015	C 11258	9.4	3.4832	1.2203
59296	C 10982	8.7	17.7315	22.7766	59618	C 11136	9.3	13.6085	9.9228	60261	C 11260	9.5	3.6423	12.6418
59237	C 10984	9.3	17.8583	19.7208	59447	C 11140	8.3	14.0607	2.3349	60084	C 11263	8.9	3.8832	5.2329
58898	C 10983	9.4	17.8840	4.6837	59565	C 11141	9.2	14.1671	6.8063	60325	C 11264	8.2	4.0274	15.4401
59325	C 10985	8.7	18.0113	23.7269	59843	C 11142	9.2	14.2097	19.9398	60508	C 11265	9.1	4.2403	24.7259
59261	C 10986	9.0	18.0691	20.1681	59754	C 11143	9.1	14.2620	15.9136	60298	C 11272	9.5	5.0400	14.7470
58899	C 10987	9.5	18.4038	4.7072	59566	C 11144	8.7	14.3087	6.2325	60046	C 11274	9.2	5.2737	3.3763
59162	C 10989	9.2	18.4947	16.2228	59913	C 11147	9.4	14.3649	23.8891	60026	C 11276	9.4	5.2770	2.5094
59133	C 10990	8.6	18.5421	15.1390	59511	C 11146	9.3	14.4189	4.8827	60216	C 11275	9.2	5.3046	10.1648
59340	C 10991	9.0	18.8212	23.9372	59567	C 11153	9.3	15.7385	6.6969	60085	C 11277	9.5	5.3183	5.1282
59326	C 10996	8.9	19.0580	22.9405	59641	C 11159	9.0	16.2015	10.1926	60432	C 11278	9.1	5.4374	20.1076
59327	C 10999	9.3	19.1019	23.8483	59592	C 11160	9.3	16.2220	7.2510	60107	C 11280	9.5	5.6778	6.8894
59013	C 11001	8.9	19.8738	10.3004	59862	C 11165	9.0	16.7452	20.7026	60017	C 11282	9.2	5.9706	1.5352
59330	C 11006	9.5	20.4579	23.9133	59821	C 11166	9.3	16.7806	18.6345	60326	C 11284	9.4	6.0602	15.3795
58818	C 11005	7.9	20.5218	0.8207	59569	C 11168	8.2	17.0994	6.3468	60108	C 11286	9.5	6.0948	6.8868
59359	C 11016	9.2	22.1524	25.1777	59758	C 11171	9.0	17.3371	15.4851	60301	C 11288	9.5	6.1266	14.3620
58978	C 11013	8.3	22.2201	8.9546	59436	C 11172	8.4	17.8401	2.1545	60327	C 11290	9.3	6.3135	15.1234
58882	C 11015	8.0	22.3531	3.8174	59479	C 11173	9.3	17.8888	3.5066	60066	C 11293	9.0	6.7128	4.2393
58917	C 11024	8.9	23.2052	5.9600	59771	C 11175	9.3	18.0642	16.8501	60129	C 11295	9.5	6.8417	7.7075
59192	C 11028	6.0	23.9100	17.7478	59451	C 11176	8.6	18.1979	2.9616	60328	C 11297	9.5	6.9860	15.4508
58819	C 11035	8.3	25.2081	0.5225	59482	C 11177	8.2	18.3474	3.4058	60029	C 11298	9.3	7.0365	2.8037
Plate 469. R.A. 20 ^h 15 ^m					59646	C 11179	8.5	18.6109	10.5440	60353	C 11304	9.4	7.7761	16.4317
					59648	C 11185	8.5	19.3780	11.0789	60263	C 11307	9.0	8.1153	12.4875
					59714	C 11190	8.5	19.5867	13.7568	60030	C 11308	9.3	8.2161	2.9015
					59594	C 11192	9.4	19.9147	7.3502	60151	C 11310	9.1	8.5484	8.5522
					59897	C 11195	8.7	20.4402	22.2039	60435	C 11314	9.4	9.0323	20.6755
					59866	C 11196	9.0	20.5976	20.8636	60529	C 11316	9.0	9.2826	25.1170
					59848	C 11200	8.2	20.9172	19.2773	60186	C 11317	8.8	9.2861	9.8736
					59520	C 11199	9.0	20.9195	4.4558	60019	C 11318	9.1	9.3348	1.5292
					59849	C 11201	9.4	21.0573	19.2224	60188	C 11322b	9.5	9.9000	9.1696
					59867	C 11202	9.5	21.2778	20.4612	60513	C 11326	9.5	10.4168	24.7836
					59687	C 11205	9.2	21.4360	12.4243	60154	C 11327	9.5	10.4431	8.5821
Plate 198. R.A. 20 ^h 24 ^m					59898	C 11208	8.1	21.4770	22.2652	60283	C 11328	9.1	10.5138	13.3411
					59850	C 11211	9.3	21.6407	19.4484	60284	C 11331	8.5	10.7507	12.9909
					59668	C 11213	9.3	21.8122	12.0685	60191	C 11332	8.6	11.3487	9.7284
					59868	C 11215	9.4	21.9364	20.1390	60049	C 11338	9.1	12.3721	3.6815
					59689	C 11216	8.0	22.2151	12.1380	60160	C 11342	9.5	12.6850	8.6116
					59774	C 11217	9.1	22.3206	16.5537	60134	C 11343	9.5	12.8493	7.5962
					59453	C 11221	9.1	22.6506	3.0993	60033	C 11346	9.0	12.9106	2.7826
					59941	C 11224	9.0	22.6551	25.8059	60021	C 11347	8.7	12.9332	1.9688
					59777	C 11223	9.0	22.6559	16.8276	60193	C 11349	9.1	13.3886	9.7443
					59829	C 11225	9.4	22.9296	18.0979	60034	C 11352	9.3	13.6449	2.5733
					59438	C 11226	9.5	23.1151	1.7281	60440	C 11354	8.5	13.8397	20.4756
...					59575	C 11229	9.5	23.4209	6.6955	60337	C 11355	8.2	14.1833	15.3032
					59830	C 11233	8.3	24.0491	18.8226	60395	C 11356	7.9	14.2970	18.3238
					59918	C 11237	9.1	24.3907	23.2713	60338	C 11359	9.0	14.5418	15.8057
					60097	C 11362	9.0	14.7528	5.0635	60136	C 11363	9.0	15.0737	7.6828
					60053	C 11364	9.1	15.0916	3.4651	60162	C 11367	9.3	15.1483	8.9269
					60137	C 11368	8.5	15.1866	7.2229	60310	C 11371	7.8	15.2704	14.5467
					60290	C 11372	7.6	15.4805	13.3097	60054	C 11374	9.0	15.5777	3.2170
					60516	C 11379	9.1	15.6318	24.5541	60099	C 11381	9.2	15.9102	5.8989
					60099	C 11381	9.2	15.9102	5.8989	60271	C 11388	8.9	16.5532	12.3095
					60271	C 11388	8.9	16.5532	12.3095	60376	C 11390	9.1	16.7169	17.2597
					60376	C 11390	9.1	16.7169	17.2597	60039	C 11391	9.0	16.8166	2.9134
60039	C 11391	9.0	16.8166	2.9134	60397	C 11397	9.4	16.9541	18.8126					
60397	C 11397	9.4	16.9541	18.8126	60199	C 11400	8.7	17.1517	9.1282					
60199	C 11400	8.7	17.1517	9.1282										

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
R.A. 20 ^h 24 ^m (continued)					R.A. 20 ^h 33 ^m (continued)					R.A. 20 ^h 42 ^m (continued)				
60358	C 11402	9.5	17.1735	16.3609	60981	C 11514	8.7	9.8012	18.3729	61215	C 11635	9.0	1.5033	1.6027
60518	C 11405	9.1	17.9974	24.8146	61102	C 11520	9.1	10.8783	25.2548	61585	C 11634	9.3	1.6038	23.4915
60534	C 11409	9.5	18.3865	25.8253	60680	C 11521	9.2	10.9317	5.4846	61353	C 11638	9.5	2.2572	10.2170
60140	C 11408	8.0	18.4264	7.3767	60790	C 11524	9.0	11.1470	11.0736	61291	C 11643	8.6	2.9476	5.8116
60115	C 11411	9.2	18.8884	6.2201	61084	C 11525	8.7	11.3235	23.3196	61354	C 11645	9.5	3.0525	10.0996
60116	C 11412	7.4	18.9324	6.9744	60665	C 11526	9.4	11.6917	4.4902	61443	C 11647	9.5	3.1979	15.1437
60231	C 11413	9.3	18.9825	10.2560	60719	C 11527	9.0	11.9649	8.2113	61425	C 11653	9.4	4.6609	14.1670
60420	C 11414	9.1	19.1896	19.3606	60891	C 11528	9.4	11.9703	13.3481	61257	C 11664	9.0	6.2579	3.0899
60316	C 11416	9.2	19.2406	14.7869	60865	C 11530	9.5	12.3075	13.2595	61258	C 11666	9.4	6.4614	3.2967
60063	C 11415	9.2	19.3096	3.2703	60912	C 11534	9.2	12.5182	14.8438	61236	C 11668	8.5	6.8015	2.1331
60232	C 11417	9.4	19.3515	9.9901	60998	C 11538	9.4	13.0518	20.0479	...	C 11669	9.4	7.1885	22.2287
60344	C 11418	9.2	19.4606	14.9746	60738	C 11539	9.5	13.1355	9.2727	61572	C 11671	8.1	7.4046	22.4217
60170	C 11420	8.3	19.8242	8.4630	60866	C 11541	9.3	13.3545	13.1493	61552	C 11672	9.3	7.4804	21.9109
60273	C 11421	8.7	19.9367	12.4283	60682	C 11543	9.0	13.8574	6.2451	61306	C 11674	9.3	7.7866	6.1897
60422	C 11430	9.2	20.6950	19.0312	61059	C 11547	9.3	14.6811	22.4274	61275	C 11677	9.2	8.3844	4.5688
60444	C 11431	9.1	20.8631	20.2959	60969	C 11549	9.1	14.7890	17.3470	61237	C 11679	9.2	8.4544	2.9616
60446	C 11432	9.0	21.1403	19.9935	61088	C 11552	9.3	14.9496	23.7220	61238	C 11680	9.0	8.4612	2.7418
60363	C 11435	8.8	21.5524	16.2587	60913	C 11557	9.2	15.6891	15.1008	...	C 11684	9.5	8.8271	10.6563
60425	C 11437 ^a	9.3	21.7934	19.0851	60668	C 11559	9.3	15.7580	4.6481	61297	C 11687	9.2	9.0085	5.3554
60364	C 11438	9.2	21.9682	16.1307	61060	C 11562	9.4	15.8776	22.4039	61533	C 11686	9.0	9.0158	20.4686
60174	C 11441	9.2	22.6576	8.6721	60741	C 11563	9.2	16.5523	8.9237	61534	C 11690	9.5	9.1483	20.1281
60176	C 11448	9.5	23.1433	8.5530	61061	C 11566	9.3	16.6417	22.5242	61410	C 11693	8.8	9.3125	13.6813
60239	C 11450	9.5	23.2871	10.8595	60839	C 11569	9.3	16.8960	12.1505	61557	C 11699	9.0	10.1593	21.0708
60064	C 11453	8.2	24.3180	3.1395	60794	C 11570	9.3	16.9568	11.1897	61468	C 11700	9.4	10.1753	16.3669
60468	C 11456	8.1	24.9480	21.6246	61041	C 11577	8.0	18.6592	21.9659	61469	C 11703	9.4	10.4917	16.7168
60469	C 11458	8.4	25.3573	21.4894	60974	C 11578	9.0	18.8392	17.8461	61574	C 11708	9.1	11.0406	22.4571
60470	C 11459	9.0	25.3623	21.2000	60769	C 11581	8.0	19.0800	9.8488	61359	C 11710	9.2	11.0721	10.3734
60212	C 11462	9.4	25.8856	9.6130	60722	C 11582	9.4	19.1706	7.5413	61348	C 11712	9.2	11.2200	9.4942
60427	C 11464	9.4	25.8952	19.4393	60842	C 11585	9.0	19.2875	12.2300	61349	C 11716	9.2	11.9836	9.4351
60428	C 11465	8.6	25.9344	19.3394	60936	C 11586	8.7	19.4702	15.6040	61536	C 11719	9.4	12.4505	20.5397
60179	C 11463	9.5	25.9348	8.5786	60610	C 11588	9.1	19.7314	0.6771	61325	C 11721	9.3	12.7388	7.1581
Plate 1227. R.A. 20 ^h 33 ^m					60742	C 11589	9.4	19.9748	8.8885	61433	C 11722	9.3	12.7504	14.3217
					60937	C 11593	9.4	20.3715	15.8094	61222	C 11723	9.0	12.8000	1.1518
					60669	C 11591	9.5	20.4100	4.7905	61311	C 11725	9.3	13.2267	6.5888
					...	C 11592	8.9	20.4763	0.1175	61312	C 11727	9.2	13.5910	6.4792
					61107	C 11601	9.1	21.0461	24.8545	61627	C 11735	9.4	14.5566	25.7234
					60957	C 11604	9.5	21.5307	16.6827	61364	C 11733	8.3	14.5610	10.1330
					61043	C 11606	9.5	21.7496	21.3846	61497	C 11736	9.0	14.6697	18.4369
					61021	C 11610	8.8	21.9981	21.1119	61208	C 11739	9.3	15.0221	0.3875
					60612	C 11608	9.2	22.0691	0.7844	61365	C 11740	9.2	15.1956	10.3281
					60991	C 11614	9.4	23.1742	18.7190	61264	C 11746	9.1	16.3662	3.4632
60627	C 11453	8.2	0.2937	3.1518	61125	C 11618	9.1	23.2667	25.8118	61266	C 11754	7.0	17.3108	3.7346
61025	C 11456	8.1	1.2643	21.6226	60726	C 11617	9.4	23.3727	7.9548	61379	C 11758	9.4	17.5465	11.0909
61011	C 11459	9.0	1.6706	21.1904	61108	C 11622	8.0	23.8662	25.0898	61268	C 11760	9.3	17.9085	3.6160
61026	C 11458	8.4	1.6710	21.4798	60671	C 11621	8.5	23.9547	4.6439	61226	C 11761	8.0	17.9218	2.0683
60751	C 11462	9.4	1.9803	9.5959	61109	C 11625	8.5	24.1127	24.7634	61327	C 11762	8.2	17.9717	7.2058
60728	C 11463	9.5	2.0105	8.5608	60845	C 11631	8.2	25.0105	12.0075	61282	C 11764	9.3	18.0368	4.9299
60994	C 11464	9.4	2.1710	19.4199	60846	C 11632	9.0	25.0403	11.4183	61435	C 11767	7.9	18.1815	14.9332
60995	C 11465	8.6	2.2083	19.3192	60624	C 11629	9.3	25.0742	2.0239	61269	C 11768	9.0	18.2609	4.0009
60628	C 11466	8.7	2.5568	2.4270	61095	C 11634	9.3	25.2530	23.4997	61380	C 11772	7.9	18.4726	11.5628
60896	C 11469	9.2	2.8894	14.6980	60625	C 11635	9.0	25.5561	1.6121	61209	C 11769	8.8	18.4829	0.2636
60696	C 11475	9.2	3.5414	6.7330	Plate 1228. R.A. 20 ^h 42 ^m					61227	C 11773	8.8	18.6873	1.4462
60731	C 11476	9.4	3.8008	8.3944						61500	C 11779	8.3	19.4374	18.1994
60707	C 11477	7.7	3.8251	7.3870						61271	C 11780	9.4	19.6055	3.2690
60778	C 11478	8.4	3.8905	10.4420						61283	C 11781	9.1	19.7268	4.6728
60781	C 11484	9.1	5.1337	10.8768						61455	C 11782	9.3	19.7588	15.7742
60756	C 11485	9.4	5.5001	9.3708						61578	C 11784	9.1	19.9029	22.9005
60962	C 11486	9.0	5.7854	17.7098						61366	C 11788	9.2	20.1660	10.4323
60660	C 11488	9.3	5.8456	4.9748						61488	C 11792	9.5	20.5522	18.0591
60759	C 11489	8.5	6.0431	10.0623						61284	C 11793	9.2	20.6862	4.6017
61099	C 11491	9.2	6.2108	24.6766	61247	C 11796	9.5	20.9262	2.6216					
60927	C 11495	8.7	6.8890	15.4489	61543	C 11798	9.5	21.0555	20.7681					
61100	C 11496	9.2	6.9348	25.1101	61382	C 11799	9.3	21.3550	11.7748					
60882	C 11497	8.1	7.6073	13.7419	61615	C 11803	9.1	21.4290	24.8391					
60661	C 11506	8.2	8.3985	4.6472	61272	C 11800	9.5	21.4982	3.3716					
60679	C 11513	9.0	9.5947	5.3598										

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
R.A. 20 ^h 42 ^m (continued)					R.A. 20 ^h 51 ^m (continued)					R.A. 21 ^h 0 ^m (continued)				
61474	C 11804	9.5	21.5145	16.5341	62576	C 11924	9.4	15.8874	24.4774	62756	C 12078	9.1	13.5014	2.9501
61351	C 11802	9.1	21.5391	9.7868	61766	C 11923	8.0	15.9309	2.4471	63377	C 12080	9.3	13.6295	22.9905
61249	C 11801	9.1	21.6005	2.1602	62059	C 11926	9.1	16.1144	12.1771	63302	C 12081	9.4	13.7060	20.7633
61285	C 11805	9.0	21.6487	4.6809	62617	C 11932	9.3	17.0662	25.7454	63031	C 12082	8.9	13.7379	11.9019
61544	C 11814	8.0	22.8805	20.4861	62544	C 11939	9.4	18.2074	24.4017	62896	C 12083	9.3	13.7617	7.4521
61438	C 11815	9.4	22.9897	14.7145	62545	C 11940	9.3	18.4563	24.4103	62970	C 12084	9.1	13.9378	9.8006
61213	C 11816	7.5	23.2077	1.0956	61960	C 11944	9.3	19.1611	8.6984	63305	C 12085	9.2	14.0360	20.8701
61630	C 11817	8.5	23.4308	25.1991	62292	C 11949	9.0	19.3929	18.0498	63003	C 12087	9.4	14.6013	10.4447
61601	C 11821	9.2	24.2212	23.4601	61826	C 11953	9.4	19.8501	4.7221	63095	C 12089	9.5	14.7738	13.7042
61477	C 11823	8.5	24.3893	17.0362	62581	C 11956	7.7	20.3630	25.1127	63119	C 12090	9.0	14.8923	14.6833
61304	C 11822	9.0	24.4190	5.8897	62548	C 11958	8.3	20.4854	23.6995	63144	C 12095	9.0	15.5498	15.7888
61288	C 11833	9.5	25.6136	5.0064	62067	C 11966	8.5	21.1774	11.5380	63098	C 12101	9.5	15.9666	14.0171
61584	C 11837	9.0	25.9622	22.2814	61774	C 11967	9.5	21.4629	2.6422	63339	C 12103	8.0	16.2454	21.3665
					62130	C 11974	9.3	22.7006	13.9768	63182	C 12106	8.1	16.5035	17.2655
					61969	C 11985	9.5	24.5437	9.4294	63272	C 12111	9.4	16.9784	20.3499
					62399	C 11986	9.2	24.8615	20.3493	62931	C 12115	9.3	17.7015	8.4581
					62306	C 11988	9.2	24.9725	17.5950	63073	C 12120	8.8	18.3550	13.1571
					62356	C 11989	9.4	25.1817	19.3659	63100	C 12129	9.1	19.0470	13.8701
					62552	C 11990	8.8	25.3825	23.7480	62720	C 12131	9.3	19.3750	1.1911
Plate 2562. R.A. 20 ^h 51 ^m										62808	C 12133	9.2	19.7162	4.6534
61833	C 11822	9.0	0.4452	5.8998	Plate 2563. R.A. 21 ^h 0 ^m					63449	C 12137	9.3	19.9804	25.2472
62514	C 11821	9.2	0.5715	23.4714	62947	C 11985	9.5	0.6353	9.4371	63075	C 12138a	9.5	20.1134	12.9868
62215	C 11823	8.5	0.6210	17.0454	63283	C 11986	9.2	1.1543	20.3492	63347	C 12139	9.3	20.2002	21.3698
61802	C 11833	9.5	1.6234	4.9952	63199	C 11988	9.2	1.2143	17.5933	63313	C 12142	9.4	20.2897	20.6024
62449	C 11837	9.0	2.2904	22.2600	63258	C 11989	9.4	1.4563	19.3597	63077	C 12144	9.1	20.5853	12.4845
62218	C 11838	9.0	2.4523	16.9610	63395	C 11990	8.8	1.7377	23.7375	63125	C 12145	9.2	20.6353	14.4184
61729	C 11841	7.7	2.7296	1.6863	62916	C 11992	9.2	2.3648	9.3058	63078	C 12146	9.2	20.7369	12.7675
62041	C 11843	6.1	2.9893	11.5433	62882	C 11994	9.5	2.8900	8.1617	62983	C 12149	9.5	21.4456	9.4568
62042	C 11845	9.3	3.1084	12.1419	63084	C 11996	9.5	3.0669	14.1636	63126	C 12151	9.2	21.5121	14.8889
61836	C 11854	9.0	4.6026	5.4799	63203	C 11997	9.0	3.1070	17.5962	63419	C 12153	9.0	21.5297	24.1712
62317	C 11855	8.0	4.7746	18.7627	63325	C 11998	8.5	3.1414	22.0186	62984	C 12152	9.5	21.5947	9.9515
62519	C 11858	9.2	5.0881	23.9089	63461	C 12000	9.0	3.4392	25.5476	62784	C 12157	8.8	21.7887	4.0246
62187	C 11860	8.9	5.2695	16.2604	62953	C 12003	9.4	4.4953	9.4249	63422	C 12160	9.2	22.1861	23.7759
62048	C 11866	9.5	5.9994	11.3978	62921	C 12004	9.5	4.5216	9.1871	63153	C 12162	9.2	22.5611	15.5926
62561	C 11868	8.0	7.0306	24.4661	63169	C 12006	9.5	5.0215	17.1100	63079	C 12165	9.5	23.1087	12.4637
62455	C 11870	7.7	7.3507	22.2228	63207	C 12008	9.4	5.1463	17.4364	63154	C 12166	8.4	23.3116	15.6528
61978	C 11871	9.3	7.4129	9.8012	63088	C 12010	9.1	5.3615	14.0177	63392	C 12168	9.2	23.7137	22.8187
62366	C 11875	8.7	7.8672	19.8296	63089	C 12012	9.4	5.5155	14.2493	63352	C 12169	9.3	23.9640	21.9851
61808	C 11880	9.0	8.6017	5.3633	62959	C 12013	7.6	6.1106	9.5350	63353	C 12170	9.3	24.2252	21.6646
62323	C 11882	9.5	8.6679	18.6965	63090	C 12014	9.4	6.1782	13.8670	63232	C 12172	9.3	24.4007	17.8915
62324	C 11883	9.5	8.7316	18.6826	63463	C 12019	9.3	6.5612	25.6345	...	C 12183	9.4	25.6982	21.8877
61809	C 11885	8.8	8.9204	5.1708	62705	C 12024	9.0	7.0631	1.3103	...	C 12184	8.9	25.7143	24.5648
61982	C 11890	9.0	10.3935	9.9356	62996	C 12028	8.8	7.8563	11.2173	...	C 12181	9.3	25.7586	5.9849
62370	C 11891	8.0	10.5753	20.2209	63021	C 12030	9.4	7.8823	12.1184	Plate 1240. R.A. 21 ^h 9 ^m				
62567	C 11892	9.3	10.6133	25.2645	62825	C 12031	7.5	7.9907	5.9624	...	C 12168	9.2	0.0521	22.8400
62152	C 11893	7.0	10.6928	14.7050	63469	C 12040	9.4	8.9781	25.3629	64082	C 12169	9.3	0.2872	22.0016
61948	C 11894	9.1	10.7409	9.2022	63023	C 12041	7.7	9.1835	12.1386	64064	C 12170	9.3	0.5423	21.6762
62372	C 11897	9.0	11.0929	19.5876	63266	C 12042	8.1	9.4980	20.0827	63961	C 12172	9.3	0.6482	17.9001
61949	C 11898	5.3	11.1367	9.1262	63215	C 12049	8.8	10.3375	17.7388	63603	C 12181	9.3	1.7864	5.9710
62016	C 11900	9.2	11.4573	11.0052	...	C 12050	7.0	10.3651	0.2380	64067	C 12183	9.4	2.0192	21.8714
61950	C 11901	9.2	11.4671	9.1625	63296	C 12051	9.4	10.4020	20.9203	64137	C 12184	8.9	2.0845	24.5476
61985	C 11904	8.0	12.3652	9.5378	62856	C 12053	9.5	10.4622	6.8113	64111	C 12186	9.2	2.3664	23.4891
61986	C 11905	9.3	12.5221	10.0191	63297	C 12055	9.5	10.6023	20.5305	63825	C 12188	9.0	2.8425	12.2067
62280	C 11906	8.9	12.7405	17.9004	63333	C 12059	7.0	10.9832	21.3648	64042	C 12189	8.5	2.9205	20.1975
62571	C 11907	9.3	13.1264	25.0242	62893	C 12065	9.5	11.5352	7.5075	63989	C 12193	9.5	3.5671	18.1874
62155	C 11911	9.2	13.6884	14.4059	63174	C 12070	9.4	12.3175	16.3789	63502	C 12195	9.5	3.6789	0.8262
62203	C 11913	9.2	13.9526	15.5150	62755	C 12076	9.0	12.9546	2.5795	63579	C 12197	9.1	3.8940	4.0466
61911	C 11914	9.3	14.1948	7.4967	63094	C 12077	9.2	13.0719	13.4700					
62240	C 11918	8.0	14.6951	16.8079										
61764	C 11919	7.2	15.0029	3.3046										
62156	C 11921	8.4	15.3815	15.3032										
61846	C 11920	9.5	15.3863	5.9725										

Cambridge A. G. C.					Cambridge A. G. C.					Cambridge A. G. C.				
Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.	
+28°.			ξ'.	η'.	+28°.			ξ'.	η'.	+28°.			ξ'.	η'.
R.A. 21 ^h 9 ^m (continued)					Plate 228. R.A. 21 ^h 18 ^m					R.A. 21 ^h 18 ^m (continued)				
63792	C 12201	9.5	4.2735	11.7280	...	C 12326	9.5	0.0563	13.0952	64327	C 12502	9.5	24.3448	7.2162
64043	C 12200	9.0	4.3012	20.0782	...	C 12327	9.4	0.2490	24.7302	64424	C 12504	9.3	24.5609	12.4194
64155	C 12203	8.9	4.6478	25.5433	...	C 12330	9.5	0.3798	6.9827	64212	C 12506	8.9	25.0845	0.1437
64019	C 12204	9.0	4.7013	19.9397	...	C 12329	9.2	0.3930	8.9385	64348	C 12508	9.1	25.2159	8.1658
63607	C 12206	9.4	4.9193	5.7650	64608	C 12332	8.9	0.6385	23.0131	64507	C 12511	9.5	25.9218	16.6862
64113	C 12208	9.4	5.1539	23.7911	64639	C 12341	8.8	2.0170	25.0925					
63609	C 12209	9.4	5.1965	5.0572	64541	C 12342	9.5	2.2375	19.5443					
63858	C 12210	9.4	5.5329	13.8279	64629	C 12344	9.3	2.3494	24.1365					
63688	C 12211	9.3	5.6405	8.8423	64263	C 12347	9.5	2.7105	4.9717					
63720	C 12213	9.2	5.7791	9.0731	64284	C 12349	9.3	2.8833	5.9340					
63913	C 12215	9.3	5.9389	15.2157	64610	C 12350	9.5	3.7087	23.1485					
63829	C 12222	8.7	6.8250	12.0914	64611	C 12353	9.5	3.9411	23.4357					
63861	C 12224	8.8	6.8641	13.0772	64473	C 12357	9.2	4.1702	15.1140					
64157	C 12225	8.8	7.2215	25.3652	64522	C 12359	9.3	4.7087	17.8891					
63542	C 12226	7.5	7.9093	2.7426	64430	C 12362	9.5	5.0356	13.3333					
64093	C 12230	9.5	8.8052	22.6553	64249	C 12365	9.4	5.5868	4.6231					
64049	C 12231	8.9	8.8420	20.4595	64266	C 12371	8.5	6.0392	5.6238					
63620	C 12241	9.4	9.5958	5.4338	64226	C 12372	8.2	6.1244	1.9886					
63545	C 12243	8.1	10.1434	2.2194	64631	C 12375	9.5	6.8329	24.4723					
64027	C 12247	8.0	10.8367	19.5143	64581	C 12376	9.4	7.2436	21.3064					
63995	C 12246	8.9	10.8370	18.3976	64434	C 12378	9.4	7.4251	13.0457					
63832	C 12248	8.4	10.8752	12.2017	64596	C 12379	8.5	7.5279	22.2517					
63893	C 12252	8.1	12.0734	14.8870	64252	C 12382	8.3	8.2932	4.5298					
63731	C 12253	8.1	12.1021	9.9303	64525	C 12383	7.6	8.4119	17.9108					
63917	C 12259	8.8	12.7383	15.7243	64498	C 12387	9.3	8.8899	16.0827					
63918	C 12263	9.1	13.2393	15.2903	64413	C 12389	9.2	9.2860	12.1340					
64124	C 12266	8.5	14.2657	23.7646	64288	C 12392	9.5	9.6640	6.9247					
63736	C 12268	9.3	14.7616	9.6549	64414	C 12393	9.3	9.6738	11.9405					
63769	C 12269	9.3	14.8175	10.2355	64632	C 12396	9.5	10.0343	24.6858					
63919	C 12270	9.5	15.0579	15.3749	64616	C 12397	9.4	10.0602	23.8021					
64056	C 12276	9.0	15.9789	21.0675	64585	C 12400	9.0	10.6030	18.8446					
64055	C 12277	9.0	15.9813	21.0069	64457	C 12402	8.3	10.9692	14.6949					
63839	C 12279	9.1	16.1618	12.8388	64643	C 12404	9.2	11.3595	25.1663					
63737	C 12281	8.4	16.2753	9.8814	...	C 12409	9.4	11.7885	25.9982					
63568	C 12282	9.3	16.3114	3.3364	64220	C 12408	9.5	11.8008	1.2577					
63595	C 12283	9.3	16.5948	5.0728	64619	C 12415	8.4	12.9487	22.8804					
63680	C 12284	9.0	17.5028	7.1175	64587	C 12416	8.9	12.9719	21.1463					
63740	C 12286	9.0	17.7931	9.6860	64645	C 12420	9.4	13.3161	25.3724					
63807	C 12287	9.3	17.8950	12.0002	64254	C 12421	9.5	13.5388	4.0346					
63660	C 12288	9.3	18.0624	6.5768	64602	C 12424	9.3	14.0412	22.4950					
64162	C 12291	8.5	18.0756	25.9422	64223	C 12429	9.2	14.6356	1.0818					
63741	C 12292	9.0	18.3774	9.7790	64551	C 12435	8.8	14.9576	19.3234					
63570	C 12293	9.4	18.5054	3.1506	...	C 12436	9.3	15.1206	25.9253					
63876	C 12295	9.4	18.7318	13.1020	64245	C 12438	9.5	15.3041	3.7581					
63699	C 12296	8.1	19.0405	8.1460	...	C 12445	9.5	15.6885	25.8677					
64032	C 12299	9.3	19.8266	19.5256	64442	C 12446a	9.3	15.7672	13.4102					
63955	C 12304	9.5	21.3217	16.1827	64463	C 12449	9.0	16.3901	14.0115					
63777	C 12311	9.4	22.3373	10.8795	64318	C 12448	9.0	16.4113	7.9614					
64009	C 12315	9.5	22.7283	18.2011	64635	C 12451	9.5	16.5247	24.7553					
63779	C 12316	9.2	22.8614	10.3072	64605	C 12452	9.5	16.6021	22.2524					
63751	C 12317	9.5	23.0011	9.9799	64444	C 12453	8.4	16.9347	13.5170					
63845	C 12318	9.3	23.1056	12.3503	64515	C 12456	9.4	16.9814	17.2412					
63602	C 12320	9.1	23.3262	4.4279	64622	C 12458	9.4	17.5390	23.6811					
63783	C 12322	9.5	23.3614	10.7024	64648	C 12460	9.3	17.8436	25.8176					
63784	C 12323	9.5	23.4621	10.4459	64446	C 12464	9.5	18.8741	13.5610					
64150	C 12327	9.4	23.8755	24.7123	64325	C 12471	9.3	19.7027	7.1001					
63847	C 12326	9.5	23.8974	13.0762	64211	C 12472	7.0	19.9475	0.8615					
64107	C 12332	8.9	24.2966	23.0031	64518	C 12475	9.2	20.2340	17.1629					
63709	C 12329	9.2	24.3212	8.9266	64402	C 12484	9.5	21.2796	11.9446					
63664	C 12330	9.5	24.3336	6.9711	64637	C 12487	9.5	21.7558	24.1360					
64151	C 12341	8.8	25.6366	25.1082	64235	C 12486	9.5	21.8663	3.0066					
64040	C 12342	9.5	25.9594	19.5651	64405	C 12489a	9.5	22.2883	11.9212					
					64303	C 12495	9.2	23.5290	6.1193					
					64536	C 12498	9.2	23.5727	18.3694					
					64638	C 12499	9.5	23.8351	24.4712					

Plate 1215. R.A. 21 ^h 27 ^m				
...	C 12499	9.5	0.2041	24.4900
64976	C 12502	9.5	0.3955	7.2277
65218	C 12504	9.3	0.7075	12.4262
64701	C 12506	8.9	1.0047	0.1429
65035	C 12508	9.1	1.2841	8.1613
65392	C 12511	9.5	2.1469	16.6669
64987	C 12513	9.0	2.4590	8.0261
64932	C 12514	8.0	2.6523	6.3094
64793	C 12516	5.3	3.0167	3.1099
65306	C 12517	9.4	3.1464	14.3438
64707	C 12521	9.1	3.6639	0.6572
65434	C 12522	9.3	3.9310	17.6397
65435	C 12523	9.5	3.9764	17.7118
64708	C 12526	8.9	3.9813	0.5257
65730	C 12524	9.5	4.0423	24.8091
65773	C 12525	9.3	4.1045	25.8369
65436	C 12527	9.5	4.1955	18.0346
65038	C 12530	9.1	4.2653	8.8083
65437	C 12529	9.4	4.2878	17.6418
64765	C 12531	8.5	4.3240	2.7255
65733	C 12534	8.6	5.1838	24.5313
65734	C 12535	8.8	5.4683	24.9038
65041	C 12544	9.5	6.2872	8.9201
65439	C 12546	9.3	6.4204	17.4867
64997	C 12547	9.3	6.4219	7.8787
64713	C 12551	9.5	7.1931	0.6833
65310	C 12553	6.8	7.4001	14.8165
65481	C 12554	8.5	7.6876	18.2582
65366	C 12557	8.9	7.8481	15.7090
65737	C 12558	8.8	7.9745	24.1258
65313	C 12559	9.4	8.0655	14.6091
65738	C 12560	8.9	8.1072	24.3707
65782	C 12562	9.4	8.4471	25.4518
65282	C 12564	9.5	8.6066	13.9822
65133	C 12565	9.5	8.6350	10.7610
65045	C 12566a	9.5	8.8974	8.1266
64837	C 12568	9.2	9.4140	4.0836
65235	C 12573	9.5	10.0462	12.3021
65531	C 12574	8.0	10.4191	19.5961
64745	C 12577	9.2	10.7703	1.4741
65005	C 12580	9.5	11.0532	7.7516
64746	C 12582	9.0	11.1046	1.6920
64947	C 12583	9.5	11.2723	6.5529
65449	C 12593	9.0	12.1534	17.9194
65240	C 12596	8.6	12.3621	12.1138
65321	C 12597	9.5	12.3803	14.1208
65699	C 12599	9.1	12.5198	24.0283
65492	C 12600	9.4	12.5333	19.0296
65198	C 12604	9.1	12.7437	11.5743
64954	C 12609	9.1	13.8336	6.6197
65051	C 12615	9.2	14.9367	8.9230

Oxford No. Cambridge A. G. C.					Oxford No. Cambridge A. G. C.					Oxford No. Cambridge A. G. C.				
+28°.	Number.	Mag.	1900'o.		+28°.	Number.	Mag.	1900'o.		+28°.	Number.	Mag.	1900'o.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
R.A. 21 ^h 27 ^m (continued)					R.A. 21 ^h 36 ^m (continued)					R.A. 21 ^h 45 ^m (continued)				
65664	C 12618	9.4	15.4257	22.4800	66299	C 12733	9.0	7.1520	18.9063	66721	C 12858	9.0	1.8629	6.0779
65412	C 12617	9.1	15.4287	16.9081	66049	C 12735	8.5	7.2144	6.5794	66902	C 12860	9.4	2.2956	12.5992
65794	C 12621	9.3	15.5134	25.5457	66405	C 12740	8.7	7.7910	22.3677	66802	C 12861	9.3	2.9058	8.3067
65203	C 12622	9.3	15.6366	11.8513	65975	C 12741	8.5	7.8586	3.8627	67006	C 12862	8.7	2.9704	16.2696
64959	C 12623	9.4	15.7645	6.3854	65931	C 12742	9.3	7.9567	2.1065	67040	C 12864	8.2	3.2506	17.9651
65328	C 12624	9.5	15.7809	14.4473	66148	C 12743	9.5	8.1890	10.9402	66953	C 12866	8.3	3.4022	14.9820
65329	C 12629	9.5	16.4646	14.6893	66184	C 12749	9.5	9.1941	12.8953	67170	C 12868	9.1	3.4844	21.4487
65797	C 12631	9.3	16.5813	25.7760	66408	C 12752	9.4	10.0426	22.4151	66876	C 12870	9.4	4.1592	11.7560
65415	C 12632	9.2	16.6807	16.3513	66025	C 12755	9.2	10.2584	5.6432	67257	C 12872	9.4	4.3715	24.5767
65205	C 12634	9.2	16.8460	11.7307	66305	C 12758	9.4	10.4369	18.5884	66698	C 12876	8.5	5.0661	5.0006
65707	C 12635	9.3	17.0098	23.6636	66384	C 12761	8.8	11.2992	21.8029	67070	C 12879	9.4	5.2106	18.9081
65021	C 12637	9.2	17.2096	8.0896	66281	C 12765	9.4	11.8219	17.5886	66904	C 12880	9.0	5.5669	12.8346
64786	C 12643	8.0	18.7890	2.9160	66125	C 12766	8.8	11.8328	10.0545	66777	C 12881	9.3	5.6897	8.0632
64858	C 12645	9.5	19.4712	4.4250	66002	C 12769	9.5	12.0629	5.2710	67015	C 12884	9.3	6.2766	17.1780
65103	C 12646	9.1	19.4839	10.0651	66164	C 12774	8.9	12.8303	11.9043	66645	C 12886	8.6	6.2890	3.2588
64912	C 12649	9.4	19.9583	5.1734	66165	C 12775	9.5	12.8396	11.7407	67283	C 12887	9.2	6.5769	25.8004
65547	C 12651	8.8	20.2021	19.1593	66027	C 12776	9.5	12.9436	6.1841	67285	C 12890	9.5	6.7164	25.6226
65252	C 12652	9.5	20.3988	12.8099	66416	C 12780	9.5	13.5434	22.6114	66809	C 12892	8.4	7.2937	8.5575
65674	C 12654	9.3	20.6719	22.9003	66260	C 12781	7.6	13.7304	16.6039	66982	C 12894	8.6	7.5137	16.0265
65297	C 12662	9.5	22.0309	13.3298	66111	C 12783	8.8	14.2366	8.3742	67072	C 12895	9.5	7.6268	18.4318
65164	C 12661	9.0	22.0427	11.1385	...	C 12784	9.4	14.2631	0.1850	66955	C 12896	8.4	7.6600	14.3423
65552	C 12665	9.3	22.0429	19.2908	66444	C 12787	8.0	14.5644	23.6365	66856	C 12897	9.0	8.2612	10.6095
64760	C 12660	9.2	22.0466	1.5911	66063	C 12791	9.5	15.2245	7.1554	67113	C 12898	8.4	8.3620	19.6880
65554	C 12668	9.5	22.6054	20.0507	66032	C 12792	9.0	15.2974	6.3071	67264	C 12899	8.6	8.4086	24.9647
65255	C 12669	9.0	22.6977	13.0684	66501	C 12794	9.3	15.4189	25.6185	66956	C 12903	8.4	9.0022	15.2005
64920	C 12670	9.4	22.8499	5.8160	66067	C 12798	9.5	16.6572	7.1946	67018	C 12904	8.1	9.0775	17.2134
65298	C 12674	9.5	23.0130	13.2454	66068	C 12799	9.3	17.0205	6.4482	66857	C 12906	9.5	9.2088	11.2735
65112	C 12676	7.0	23.3071	10.0676	66445	C 12800	9.5	17.1939	24.1187	67235	C 12907	8.9	9.2841	23.3730
65030	C 12677	8.8	23.4405	7.9176	66360	C 12802	9.5	17.6176	20.8329	67050	C 12908	8.9	9.4463	17.5640
64729	C 12678	9.2	23.8537	1.0788	66170	C 12803	9.0	17.7199	11.5516	66650	C 12909	9.5	9.5434	2.9179
65171	C 12685	8.9	24.4562	10.6613	66191	C 12805	8.8	17.7912	12.5771	66882	C 12910	9.5	9.7041	11.3248
64762	C 12684	9.1	24.5303	1.3203	66248	C 12807	8.8	18.1713	16.0378	66936	C 12913	9.5	10.4284	14.1105
65259	C 12688	9.1	24.7642	12.2563	66011	C 12811	9.1	19.3634	4.9339	66986	C 12915	8.5	10.5810	16.0059
65814	C 12693	9.0	24.7853	25.9053	66115	C 12818	9.1	20.8495	8.4580	66653	C 12916	9.5	10.6828	2.4071
64821	C 12689	9.5	24.8577	3.8334	66478	C 12826	8.7	21.4918	24.5454	66677	C 12919	9.0	11.2644	3.5769
64975	C 12696	9.1	25.3915	7.1382	66072	C 12828	8.5	21.9871	7.0297	66838	C 12928	9.3	12.9243	9.4322
65765	C 12700	9.5	25.4678	24.5648	66040	C 12829	8.1	22.1385	5.6931	67151	C 12931	9.1	13.1097	20.3840
64790	C 12697	9.1	25.4796	2.9914	...	C 12832	9.2	22.3982	0.2647	67079	C 12933	8.6	13.3813	19.3242
65217	C 12702	9.3	25.8934	12.0684	66265	C 12835	4.5	22.6796	16.5387	66738	C 12935	9.0	13.7505	5.4062
Plate 2564. R.A. 21 ^h 36 ^m					66266	C 12839	7.7	23.2500	16.9259	66991	C 12936	8.9	13.9522	15.4533
					66197	C 12838	9.4	23.2568	13.0667	66742	C 12943	9.3	15.1934	6.0955
					66215	C 12841	9.5	23.4285	14.1696	66960	C 12944	9.5	15.4303	14.6573
					66431	C 12842	7.3	23.4403	22.7509	66632	C 12945	9.5	15.7054	1.4694
					66396	C 12844	7.4	23.6506	21.8650	67054	C 12946	9.5	15.7058	17.8446
					65989	C 12843	9.2	23.6720	3.8368	67025	C 12947	8.0	16.0307	16.6037
					66269	C 12848a	9.1	24.2999	16.5877	67189	C 12951	8.9	17.0751	21.4273
					65924	C 12848	9.4	24.3007	1.0312	66938	C 12952	9.4	17.1146	13.7029
					66014	C 12849	9.3	24.6198	5.1740	67088	C 12956	8.9	18.9993	18.5113
					66200	C 12853	8.8	25.3726	12.7407	67027	C 12959	9.3	19.6730	16.5375
					66435	C 12856	8.0	25.4804	22.4057	66711	C 12960	8.6	20.0650	4.9913
Plate 2565. R.A. 21 ^h 45 ^m					...	C 12858	9.0	25.8331	6.0931	66769	C 12962	9.0	20.4024	6.5152
					66601	C 12848	9.4	0.2375	1.0442	66793	C 12964	9.1	20.7917	8.2676
					67000	C 12848a	9.1	0.5226	16.5986	66794	C 12965	9.0	20.8469	8.0813
					66692	C 12849	9.3	0.6329	5.1809	67028	C 12966	5.9	21.0184	16.9295
					66901	C 12853	8.8	1.5250	12.7324	66638	C 12969	8.9	22.1024	1.9453
					67198	C 12856	8.0	1.8111	22.3937	66639	C 12972	9.4	22.7656	2.1203
										66800	C 12976	9.4	23.5972	8.3076
										66715	C 12977	9.5	23.9120	4.4466
										67034	C 12980	9.2	24.5307	17.1695
										66897	C 12981	6.8	24.7951	11.5401
65926	C 12684	9.1	0.4724	1.3291										
66143	C 12685	8.9	0.5705	10.6702										
65972	C 12689	9.5	0.8460	3.8362										
66160	C 12688	9.1	0.9079	12.2593										
66484	C 12693	9.0	1.1806	25.9056										
66046	C 12696	9.1	1.4407	7.1306										
65944	C 12697	9.1	1.4523	2.9831										
66454	C 12700	9.5	1.8382	24.5525										
66161	C 12702	9.3	2.0334	12.0506										
66292	C 12705	9.4	2.6012	18.3398										
66047	C 12711	8.7	3.5780	6.9449										
66145	C 12718	9.5	4.3577	11.0271										
66276	C 12717	9.0	4.3747	17.6036										
66457	C 12722	8.0	4.9332	25.3086										
66082	C 12724	9.2	5.0432	7.7262										
66294	C 12723	9.5	5.0615	19.0962										
66084	C 12727	9.2	5.4744	7.3863										

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.		+28°.	Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
Plate 1460. R.A. 21 ^h 54 ^m					R.A. 21 ^h 54 ^m (continued)					R.A. 22 ^h 3 ^m (continued)				
67749	C 12980	9.2	0.7650	17.1760	67559	C 13107	9.3	20.5866	7.6523	68136	C 13222	9.1	16.5835	13.3122
67629	C 12981	6.8	0.9255	11.5427	67489	C 13108	9.2	20.6838	5.1492	68074	C 13223	9.2	16.7489	8.1483
67679	C 12984	9.5	2.5379	13.9885	67888	C 13109	8.9	20.7561	23.7657	68084	C 13224	9.0	17.0314	9.6451
67633	C 12986	9.5	3.4608	11.1519	67519	C 13111	9.0	21.0789	5.5573	68075	C 13227	9.0	17.5442	8.0744
67659	C 12987	9.5	3.5946	13.0719	67624	C 13114	8.5	21.4725	10.2867	68016	C 13226	9.0	17.5690	2.2723
67432	C 12989	9.2	3.6394	3.1351	67908	C 13119	9.5	22.0997	24.9656	68117	C 13234	9.0	18.5542	11.2946
67874	C 12988	8.4	3.7540	23.5445	67747	C 13121	8.4	22.8699	16.4177	68118	C 13235	9.2	18.9692	11.6904
67526	C 12992	9.5	3.9308	6.5809	67651	C 13120	9.5	22.9079	11.9755	68101	C 13237	9.3	20.3876	10.8309
67541	C 12993	9.2	4.3335	7.4063	67712	C 13122	9.3	23.1512	14.6413	68089	C 13238	8.5	20.4689	8.9111
67702	C 12994	9.1	4.4059	14.2946	67469	C 13125	9.2	23.6600	3.9458	68213	C 13239	8.7	20.7838	19.4741
67757	C 12997	9.5	4.7100	17.2613	67471	C 13128	9.0	24.0945	3.5704	68236	C 13244	8.8	21.1498	21.1208
...	C 12999	8.9	4.9137	0.0645	67696	C 13130	8.8	24.2714	13.3938	68267	C 13251	9.2	21.9576	23.8845
67853	C 13002	8.9	5.2588	22.4573	67449	C 13132	9.0	24.5362	2.6719	...	C 13253	9.0	22.3774	0.6244
67639	C 13003	9.3	5.3966	12.0322	67427	C 13137	9.5	25.3393	1.9597	68033	C 13257	7.2	22.7713	3.9636
67835	C 13004	9.5	5.5433	21.3979	67890	C 13139	9.5	25.6542	23.9472	68249	C 13258	7.2	23.0862	22.1848
67662	C 13005	9.5	5.6251	13.1250	Plate 205. R.A. 22 ^h 3 ^m					68268	C 13259	9.3	23.1331	23.8519
67572	C 13006	9.5	5.8070	8.9080	...	C 13128	9.0	0.0782	3.5868	68141	C 13260	8.9	23.4868	13.5633
67407	C 13009	9.3	5.8227	0.8100	68130	C 13130	8.8	0.4360	13.4056	68120	C 13261	8.5	23.5131	10.8584
67897	C 13007	8.8	5.8832	24.4591	68009	C 13132	9.0	0.5032	2.6806	68203	C 13265	9.3	23.7292	18.4315
67682	C 13010	9.5	5.9586	13.6551	68010	C 13137	9.5	1.2931	1.9540	68008	C 13264	9.0	23.8494	1.7020
67703	C 13011	9.5	6.0258	14.8030	68260	C 13139	9.5	2.0132	23.9315	68225	C 13269	8.7	24.9005	19.8816
67898	C 13016	8.5	6.3937	24.1723	68107	C 13147	7.7	3.5984	11.4027	68018	C 13270	9.5	25.3349	1.9596
67704	C 13017	9.4	6.5992	14.3307	68052	C 13150	9.3	4.1543	7.0767	68250	C 13274	9.4	25.6848	22.5762
67735	C 13018	9.4	6.7563	16.6040	68143	C 13151	9.3	4.5469	13.9418	Plate 1216. R.A. 22 ^h 12 ^m				
67642	C 13019	9.4	7.0497	11.4736	68252	C 13155	9.3	5.3224	23.5495	68744	C 13269	8.7	1.1847	19.8808
67419	C 13023	8.9	7.1664	1.6956	68019	C 13158	9.0	5.6207	3.3940	68321	C 13270	9.5	1.2886	1.9541
67575	C 13026	9.3	7.9941	8.7962	68270	C 13161	9.5	6.1425	25.1576	68820	C 13274	9.4	2.0186	22.5701
67665	C 13027	9.2	8.0163	12.4949	68125	C 13163	9.3	6.3091	11.7810	68862	C 13279	9.0	3.3735	24.8939
67439	C 13029	9.1	8.3931	2.3614	68025	C 13164	9.5	6.3653	4.0051	68799	C 13288	8.5	4.2850	21.8224
67816	C 13030	8.8	9.0057	20.7429	68204	C 13166a	9.3	6.5378	19.4811	68628	C 13292	6.4	5.2190	14.3762
67857	C 13031	9.5	9.2636	22.9585	68179	C 13170	9.5	6.8879	17.6165	68488	C 13295	9.5	5.5585	8.7510
67545	C 13032	8.5	9.2794	7.2204	68192	C 13171	9.5	6.8956	17.8554	68708	C 13297	9.1	5.8144	17.5530
67839	C 13033	9.4	9.3817	21.4689	68276	C 13172	9.5	7.2851	25.7993	68709	C 13298	9.4	5.8284	17.8410
67408	C 13034	8.6	9.5087	0.7521	68069	C 13174	9.0	7.4598	8.4569	68801	C 13301	8.3	6.7161	21.8973
67817	C 13035	9.5	9.5501	20.8404	68205	C 13175	5.9	7.8448	18.7448	68567	C 13302	8.8	6.8995	11.1390
67546	C 13036	8.9	9.5585	7.4226	68206	C 13176	9.2	7.8771	19.5528	68802	C 13303	9.0	7.5199	21.4934
67763	C 13037	7.5	9.6143	17.1842	68057	C 13179	8.0	8.5837	6.8496	68890	C 13305	7.3	7.7985	25.9398
67783	C 13039	8.5	10.3558	18.5186	68219	C 13180	9.2	8.6663	7.6800	68632	C 13308	8.5	8.7018	14.0844
67859	C 13040	7.2	10.3910	23.0235	68167	C 13186	8.6	10.5980	21.7455	68851	C 13309	8.9	8.9989	23.6169
67882	C 13041	9.5	10.6275	23.2757	68043	C 13188	8.2	10.8488	10.9701	68352	C 13313	9.5	9.2959	2.4026
67737	C 13042	7.9	10.7520	16.5304	68044	C 13189	9.4	10.9804	20.1032	68892	C 13314	9.2	9.3683	25.5780
67766	C 13043	9.1	10.9410	17.9774	68022	C 13190	9.2	11.0956	16.6441	68866	C 13319	8.8	10.3901	24.5285
67530	C 13045	9.0	11.0510	6.6030	68035	C 13193	8.7	11.6017	6.3703	68422	C 13320	9.5	10.5183	5.7438
67723	C 13048	8.8	11.2138	15.5815	68043	C 13195	9.3	12.0032	6.1122	68401	C 13321	9.0	10.5513	4.8729
67902	C 13049	9.0	11.3481	24.4031	68022	C 13200	8.8	12.3392	3.5962	68782	C 13322	9.4	10.6448	20.9586
67481	C 13051	9.4	11.6659	4.9043	68035	C 13201	9.3	12.5654	5.7622	68493	C 13323	9.2	11.2543	8.6488
67409	C 13052	9.5	11.8498	0.3194	68126	C 13203	8.9	12.6109	12.4373	68423	C 13324	9.5	12.0383	5.6714
67531	C 13057	9.5	12.6849	6.2575	68196	C 13204	8.9	12.8119	18.6928	68403	C 13329	6.6	12.7103	4.6665
67410	C 13059	8.8	12.9287	0.1855	68096	C 13207	8.8	13.1716	10.3470	68788	C 13331	7.0	13.2216	21.0844
67770	C 13060	9.4	13.0013	17.3421	68071	C 13208	9.3	13.6604	8.7280	68424	C 13332	9.0	13.2700	5.4054
67552	C 13064	9.1	14.1483	7.4501	68097	C 13213	8.7	14.4645	10.5729	68332	C 13335	9.0	13.9140	2.0476
67800	C 13068	9.2	14.7675	19.8582	68061	C 13216	9.0	15.1344	7.6716	68495	C 13339	8.8	14.9934	8.2994
67705	C 13070	8.7	14.8800	15.0200	68172	C 13218	9.0	15.3111	15.9537	68691	C 13341	9.3	15.0592	16.4936
67774	C 13074a	9.5	15.0745	17.9238	68006	C 13217	8.9	15.3509	1.2187	68311	C 13345	9.0	16.1551	0.6636
67581	C 13077	8.5	15.9056	8.9395	68233	C 13220	9.2	15.7926	21.5956	68644	C 13346	9.5	16.3288	14.3482
67510	C 13080	9.5	16.4952	5.4296	68083	C 13219	8.6	15.7968	8.8769	68694	C 13349	9.1	16.9891	17.0395
67824	C 13083	9.3	16.6364	20.6749	68244	C 13221	9.0	16.2258	22.5174	68364	C 13350	9.1	17.1979	2.7641
67917	C 13086	9.5	17.1482	25.6497										
67708	C 13089	8.8	17.6238	14.4386										
67672	C 13091	9.4	18.1092	12.7981										
67887	C 13094	9.5	18.6791	23.2213										
67425	C 13096	9.0	18.9450	2.1641										
67558	C 13097	8.2	19.2034	7.8239										
67907	C 13099	9.3	19.2600	25.0810										
67517	C 13105	9.4	20.3609	5.4593										

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900'0.		+28°.	Number.	Mag.	1900'0.		+28°.	Number.	Mag.	1900'0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
R.A. 22 ^h 12 ^m (continued)					R.A. 22 ^h 21 ^m (continued)					R.A. 22 ^h 30 ^m (continued)				
68667	C 13353	8'0	17'8384	15'9139	69085	C 13464	9'4	19'1018	4'5407	69953	C 13594	9'0	21'1631	16'7314
68581	C 13354	9'5	18'2626	11'9887	69182	C 13468	9'0	20'7045	8'6199	70039	C 13595	9'0	21'1805	20'6521
68582	C 13355	9'4	18'4398	12'1058	69053	C 13470	9'0	21'1138	3'3773	69868	C 13601	8'7	22'9970	13'2466
68471	C 13358	9'3	18'8587	7'8756	69089	C 13474	9'0	21'6072	4'9078	70002	C 13602	9'4	23'2724	18'5307
68715	C 13360	7'5	19'6529	17'1586	69535	C 13475	9'3	21'6076	25'7256	69800	C 13603	9'4	23'4509	10'1835
68387	C 13359	7'9	19'6855	3'1899	69386	C 13479	7'0	22'1971	19'2412	69670	C 13604	9'0	23'5604	3'1735
68669	C 13361	9'0	19'8053	15'7274	69342	C 13480	9'4	22'4597	16'6766	70068	C 13610	9'0	24'2748	22'1545
68389	C 13362	9'5	20'6777	3'4707	69414	C 13481	9'5	22'4918	19'7341	69785	C 13611	9'0	24'4773	8'8359
68555	C 13365	8'9	21'4677	10'4845	...	C 13483	9'3	22'7875	0'0336	69786	C 13612	9'5	24'4998	8'5342
68556	C 13367	9'3	21'6595	10'4497	69231	C 13484	9'0	23'1705	10'7817	69957	C 13613	9'0	24'6205	17'2183
68717	C 13368	8'6	21'6815	17'3046	69232	C 13485	9'4	23'2324	10'9585	69932	C 13614	9'3	24'6531	15'6603
68601	C 13370	9'2	21'9212	12'4634	69344	C 13488	9'4	23'4511	16'6590	70006	C 13615	9'5	24'7949	18'9410
68903	C 13372	8'5	22'4845	25'2243	69461	C 13490	9'5	23'7470	21'7131	70108	C 13616	8'5	24'8734	23'7110
68835	C 13374	9'0	22'7826	22'2128	69417	C 13494	9'5	25'3881	20'1140					
68314	C 13375	9'5	22'9860	0'8957	69259	C 13497	8'0	25'6646	12'2372					
68339	C 13377	8'9	23'4822	1'1654										
68482	C 13378	9'2	23'7264	7'1540										
68483	C 13379	9'4	23'7349	7'3575										
68534	C 13381	9'0	23'8887	9'2245										
...	C 13384	5'0	25'4822	10'9818										
Plate 2566. R.A. 22 ^h 21 ^m					Plate 2567. R.A. 22 ^h 30 ^m					Plate 2568. R.A. 22 ^h 39 ^m				
69214	C 13384	5'0	1'6023	10'9719	70046	C 13490	9'5	0'0651	21'7341	70349	C 13611	9'0	0'5579	8'8446
69439	C 13385	9'1	2'5897	21'3122	70008	C 13494	9'5	1'6765	20'1040	70350	C 13612	9'5	0'5749	8'5427
69187	C 13386	9'0	2'7192	9'9261	69833	C 13497	8'0	1'8077	12'2236	70598	C 13610	9'0	0'6010	22'1652
69440	C 13387	9'2	2'9220	21'4922	69764	C 13498	8'5	2'5313	8'6856	70521	C 13613	9'0	0'8557	17'2232
69192	C 13389	9'2	4'6540	9'8713	69853	C 13499	9'0	2'6348	13'2025	70475	C 13614	9'3	0'8595	15'6648
69193	C 13390	9'1	4'7225	9'8581	70109	C 13500	8'6	3'8599	25'1792	70541	C 13615	9'5	1'0618	18'9425
69194	C 13395	9'0	6'1964	9'9327	69725	C 13503	8'6	4'4254	6'8210	70653	C 13616	8'5	1'2282	23'7101
69523	C 13399	8'4	7'1662	25'3162	70130	C 13505	6'7	4'9643	25'3860	70404	C 13621	8'9	2'1311	11'2071
69037	C 13400	9'1	7'5294	2'4391	69727	C 13512	9'2	5'8703	7'0517	70352	C 13626	9'5	3'4460	9'0895
69262	C 13401	9'4	7'5796	12'9343	70013	C 13516	9'3	6'2127	19'7902	70522	C 13628	8'7	4'0066	17'6335
69122	C 13402	9'5	7'7743	7'2018	70053	C 13520	9'0	7'2325	21'6707	70369	C 13629	7'9	4'3640	9'3328
69149	C 13405	9'5	7'8723	8'1136	69966	C 13522	9'1	8'0223	17'8180	70673	C 13630	9'5	4'8578	24'8783
69172	C 13409	9'4	8'4682	8'4387	70054	C 13524	8'7	8'3235	21'6612	70628	C 13635	9'0	6'6322	22'3921
69060	C 13411	9'5	8'6086	4'2367	69855	C 13526	9'0	8'3577	12'9646	70482	C 13636	9'0	6'7533	15'4459
69308	C 13412	9'0	8'7252	15'4189	69713	C 13531	9'0	10'0562	6'1587	70333	C 13644	8'6	7'6390	7'4378
69039	C 13415	8'9	9'5505	2'3973	69812	C 13532	8'0	10'3120	25'9068	70632	C 13646	5'1	7'9052	22'4379
69018	C 13416	9'5	9'6302	1'7283	69713	C 13533	9'0	10'3612	4'2624	70256	C 13650	9'0	9'6051	2'3501
69151	C 13417	9'0	10'0070	7'9450	69812	C 13535	9'3	10'5594	10'5840	70530	C 13651	9'3	9'6585	18'1317
69266	C 13419	9'4	10'2542	12'8622	69892	C 13536	9'0	10'5941	14'5026	70323	C 13656	7'8	10'9802	6'5827
69219	C 13421	9'2	10'6962	10'6543	69813	C 13537	8'7	10'6984	10'9053	70356	C 13658	8'9	11'0203	8'6014
69295	C 13422	8'2	10'8606	15'1517	70032	C 13539	8'9	10'8663	20'4277	70257	C 13665	8'0	13'2278	2'9296
69040	C 13428	8'9	11'8151	2'7875	70116	C 13542	9'1	11'7475	25'1471	70697	C 13668	8'2	13'3396	25'7764
69154	C 13431	9'5	12'0904	7'7265	70116	C 13542	9'1	11'7475	25'1471	70610	C 13669	8'0	13'6339	22'0363
69021	C 13433	8'7	13'0432	1'8463	69971	C 13543	8'6	11'7513	18'2140	70235	C 13672	8'2	14'1030	1'8737
69400	C 13438	9'0	14'2043	20'0815	69894	C 13546	9'5	12'1516	15'2216	70466	C 13673	9'1	14'1837	14'7738
69269	C 13439	7'5	14'2894	13'1107	70119	C 13551	8'9	13'3191	25'7524	70342	C 13682	8'7	17'5927	7'9039
69425	C 13440	9'0	14'5493	21'3098	70139	C 13553	8'6	13'4980	24'3819	70309	C 13683	9'0	17'6536	5'7352
69531	C 13445	9'5	15'2814	25'9349	69746	C 13554	9'0	13'6422	7'8627	70664	C 13687	8'7	18'3154	23'4490
69067	C 13447	8'8	15'5343	4'0422	69682	C 13557	9'0	14'1828	3'7160	70469	C 13690	9'3	18'9958	14'7159
69427	C 13451	8'8	16'5015	20'7207	69683	C 13563	9'5	14'6201	3'8415	70243	C 13692	9'0	19'2112	1'4233
69360	C 13455	9'5	17'1436	17'8646	69977	C 13567	9'0	15'8061	18'0275	70448	C 13696	9'4	19'7612	14'3136
69513	C 13457	9'4	17'2509	24'5264	70145	C 13572	9'2	17'6446	25'8485	70619	C 13702	9'4	21'0103	21'5332
69206	C 13456	9'0	17'3065	9'4781	69685	C 13575	7'5	18'1512	4'1937	70429	C 13704	8'6	21'3987	12'9379
69083	C 13459	9'1	17'8212	5'0736	69686	C 13576	9'4	18'1723	3'8111	70384	C 13707	8'6	22'7173	9'8195
69453	C 13460	9'0	18'0638	21'7480	69688	C 13577	8'5	18'3306	13'9493	70245	C 13708	9'0	22'9580	1'7061
69208	C 13461	8'6	18'1341	9'7557	69614	C 13580	9'3	18'6347	0'8262	70348	C 13715	8'1	25'6448	8'1955
					69664	C 13582	9'0	18'8763	2'5020	70495	C 13716	8'5	25'7043	15'4706
					69823	C 13584	8'6	19'3635	11'3146					
					...	C 13589	8'2	20'6876	0'0525					
					69616	C 13590	8'7	20'8104	1'0773					
					69719	C 13591	8'9	20'8607	5'7249					

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
	Number.	Mag.	1900°o.			Number.	Mag.	1900°o.			Number.	Mag.	1900°o.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
Plate 208. R.A. 22 ^h 48 ^m					R.A. 22 ^h 57 ^m (continued)					R.A. 23 ^h 6 ^m (continued)				
70909	C 13715	8.1	1.7134	8.1832	71218	C 13842	9.5	14.1572	2.8975	71747	C 13976	9.5	21.8312	19.3367
71017	C 13716	8.5	1.9071	15.4558	71304	C 13844	9.0	14.7088	9.1500	71791	C 13983	9.2	23.0540	24.2300
70958	C 13720	9.2	2.3710	11.8542	71515	C 13845	9.5	14.9539	24.3323	71732	C 13982	8.9	23.1024	17.6059
70942	C 13723	9.5	2.6500	10.3028	71503	C 13849	9.1	15.2595	23.0348	71651	C 13985	7.0	23.8578	7.3586
70801	C 13725	9.1	3.3300	0.2456	71476	C 13850	8.7	15.3091	21.0024	...	C 13992	7.0	25.9801	9.4946
70809	C 13730	9.4	4.5451	1.6843	71220	C 13851	8.3	16.2191	2.8841					
70810	C 13732	8.9	4.9272	1.7339	71241	C 13852	9.5	16.3465	5.7387					
71061	C 13733	7.8	5.1955	17.9968	71242	C 13856	9.4	17.9778	5.6113					
71122	C 13735	8.7	6.0252	22.0122	71271	C 13858	var.	18.1067	7.4811					
70813	C 13738	9.0	8.4387	1.4059	71418	C 13859	8.9	18.2827	16.8080					
71103	C 13740	8.5	9.1048	21.4511	71336	C 13860	9.5	19.0208	11.7209					
71159	C 13741	8.9	9.1675	24.9364	71317	C 13861	9.5	19.2479	10.8977					
70876	C 13744	8.7	9.6191	6.6487	71419	C 13862	8.4	19.3298	16.5711					
71137	C 13753	8.5	11.0443	23.4453	71235	C 13863	8.7	19.5780	4.2967					
71161	C 13755	9.0	11.5128	25.6891	71222	C 13867	8.6	20.2802	2.6477					
71138	C 13757	9.0	12.3135	22.9506	71358	C 13868	9.0	20.5360	12.3089					
71150	C 13758	8.8	13.1825	23.9243	71291	C 13870	8.3	21.6857	8.9805					
71139	C 13759	9.3	13.7543	23.8175	71318	C 13871	8.8	22.0015	10.5073					
70849	C 13764	9.3	14.9018	3.3863	71516	C 13873	9.2	22.2000	24.0935					
71010	C 13769	7.5	15.7674	14.1486	71517	C 13874	9.3	22.2414	24.6064					
70878	C 13771	9.2	16.2415	6.5775	71442	C 13877	7.5	22.6611	18.4172					
70879	C 13772	7.7	16.7860	6.8299	71319	C 13878	9.0	23.1594	10.4975					
70856	C 13774	9.0	17.2214	4.4472	71444	C 13880	8.3	24.2646	18.0932					
71140	C 13777	8.7	17.8055	22.9170	71445	C 13886	9.0	25.4525	18.1728					
70881	C 13780	7.7	18.7171	6.7258	71454	C 13887	9.0	25.4733	19.1189					
71118	C 13786	9.5	22.4440	21.4009										
71131	C 13788	9.5	22.8479	21.9815										
70839	C 13793	9.0	24.0066	2.1824										
71132	C 13796	9.2	24.5657	22.5218										
70956	C 13797	9.5	24.9733	10.6758										
70887	C 13798	9.0	25.0186	6.1648										
71028	C 13799	9.5	25.4286	15.7669										
70888	C 13800	9.1	25.6949	6.1895										

Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.				Oxford No.	Cambridge A. G. C.			
+28°.	Number.	Mag.	1900'o.		+28°.	Number.	Mag.	1900'o.		+28°.	Number.	Mag.	1900'o.	
			ξ.	η.				ξ.	η.				ξ.	η.
R.A. 23 ^h 24 ^m (continued)					R.A. 23 ^h 33 ^m (continued)					R.A. 23 ^h 42 ^m (continued)				
72212	C 14087	8·4	5·0904	2·7112	72641	C 14204	9·5	19·1023	16·5360	72978	C 14292	7·5	17·0721	10·7901
72213	C 14088	7·9	5·1481	2·9140	72536	C 14205	8·3	20·1192	5·0763	72912	C 14294	9·1	17·3757	6·9058
72329	C 14090	8·5	5·5770	15·8192	72627	C 14207	9·0	21·4072	15·7646	73157	C 14296	9·0	18·0395	20·3412
72248	C 14092	9·5	6·2398	7·0581	72562	C 14211	9·3	22·8595	6·9385	73018	C 14297	9·3	18·1770	14·1631
72388	C 14093	9·0	6·3534	22·3996	72610	C 14212	9·0	22·9262	14·1990	72851	C 14299	8·7	18·9759	2·5192
72356	C 14094	8·7	6·8938	18·8746	72581	C 14215	8·6	24·4031	10·1588	73095	C 14304	6·2	19·8558	16·4418
72347	C 14097	9·0	7·1788	17·7353	72629	C 14216	9·0	24·5811	16·3595	73160	C 14305	8·9	19·9095	21·1937
72256	C 14098	9·3	7·4708	7·6039	72620	C 14217	8·7	24·7123	15·0590	72852	C 14307	7·1	20·4150	2·5160
72231	C 14100	9·1	8·5325	4·3517	72630	C 14219	9·5	25·3230	16·0771	73195	C 14312	9·4	21·7924	22·5634
72378	C 14102	8·5	9·4072	21·2092	72699	C 14220	9·0	25·5264	24·7415	72854	C 14314	9·5	22·4514	2·4638
72349	C 14103	8·8	10·0973	17·1164	72632	C 14221	9·4	25·6570	16·4771	72833	C 14315	9·5	22·9704	2·1218
72367	C 14105	9·5	10·5627	19·1218	72669	C 14222	9·2	25·8749	21·4579	72884	C 14316	9·0	23·1260	4·9595
72398	C 14106	9·4	10·6789	23·5910						73063	C 14319	9·0	24·5960	15·7874
72406	C 14108	8·7	11·0575	24·6113	Plate 2606. R.A. 23 ^h 42 ^m					Plate 562. R.A. 23 ^h 51 ^m				
72224	C 14110	9·5	11·8333	3·7409	72952	C 14215	8·6	0·5082	10·1686	73469	C 14319	9·0	0·8048	15·7931
72359	C 14111	9·0	11·9614	18·7372	73066	C 14216	9·0	0·8005	16·3652	73436	C 14325	8·3	2·8505	13·2866
72271	C 14113	9·4	12·2697	9·6112	73026	C 14217	8·7	0·9077	15·0626	73455	C 14326	9·0	3·3786	14·7789
72320	C 14116	9·2	12·7658	14·1820	73044	C 14219	9·5	1·5370	16·0689	73493	C 14327	8·3	3·7389	17·7841
72240	C 14117	9·5	12·8078	5·7538	73067	C 14221	9·4	1·8783	16·4628	73551	C 14329	9·0	4·1702	22·2908
72381	C 14125	9·0	15·0380	21·5208	73213	C 14220	9·0	1·9002	24·7280	73360	C 14331	9·5	4·3341	7·4961
72352	C 14126	8·9	15·3081	17·1418	73163	C 14222	9·2	2·1880	21·4383	73580	C 14330	9·0	4·4138	25·6602
72384	C 14131	9·2	17·4692	21·2333	73012	C 14223	8·8	2·3587	14·0947	73439	C 14335a	9·5	6·6244	13·5310
72228	C 14132	9·0	18·2458	3·7845	72874	C 14224	9·2	2·6235	4·2522	73473	C 14336	8·3	6·6829	16·0223
72362	C 14134	9·2	19·2175	18·3026	73069	C 14227	9·5	3·5004	16·4091	73473	C 14341	8·7	8·9431	4·7273
72324	C 14136	6·2	19·7215	14·3952	72812	C 14230	9·4	4·0802	1·9483	73339	C 14345	7·6	9·9964	24·0289
72299	C 14138	6·6	20·3211	11·2453	73166	C 14229	9·0	4·1940	21·7911	73564	C 14346	7·0	10·0716	13·9166
72392	C 14151	9·4	24·5096	22·7568	72985	C 14231	8·7	4·2327	11·7212	73442	C 14347	8·6	10·2190	23·7340
72245	C 14150	9·0	24·5638	5·7759	72954	C 14233	9·3	4·4313	9·4631	73565	C 14348	8·8	10·4308	21·2523
72393	C 14152	9·5	24·6050	22·3377	73072	C 14234	8·5	4·4992	16·9446	73546	C 14354	9·0	12·7962	13·7673
Plate 1481. R.A. 23 ^h 33 ^m					72839	C 14237	9·0	4·5823	2·8849	73444	C 14354	9·0	12·7962	13·7673
72539	C 14150	9·0	0·5880	5·7838	73182	C 14239	5·2	5·0010	22·7152	73394	C 14355	9·0	12·8619	9·2460
72676	C 14151	9·4	0·8470	22·7630	73168	C 14240	8·5	5·0732	21·9182	73485	C 14357	8·8	13·4859	16·8361
72671	C 14152	9·5	0·9347	22·3420	72815	C 14241	8·5	5·6688	1·2655	73460	C 14358	9·0	13·8716	14·7786
72542	C 14160	8·3	3·6232	6·0213	73103	C 14244	9·1	6·6077	17·4641	73487	C 14360	9·3	14·7401	16·4529
72661	C 14162	8·8	4·0573	20·8114	73073	C 14245	9·4	6·6803	16·7290	73309	C 14362	9·4	15·1228	1·7714
72555	C 14170	8·7	6·3410	6·6275	73074	C 14247	8·9	7·3407	16·5435	73303	C 14363	7·6	15·5001	1·2039
72532	C 14173	7·3	7·5062	4·7519	73216	C 14250	8·6	7·7285	25·0905	73328	C 14365	9·0	15·7640	3·6959
72517	C 14174	9·0	8·0308	2·6111	72943	C 14256	7·9	9·7469	8·4782	73446	C 14366	9·1	15·8579	13·3054
72663	C 14175	9·5	8·2097	20·9924	73032	C 14261	7·0	11·3864	14·7803	73421	C 14368	9·0	16·0951	11·3797
72638	C 14176	8·5	8·5743	17·1534	72944	C 14263	9·0	11·6360	8·9409	73316	C 14370	8·7	16·3375	3·2112
72623	C 14177	9·5	8·7089	16·0730	73120	C 14265	8·8	12·0864	18·3921	73409	C 14374	8·9	17·6321	10·6362
72586	C 14181	9·0	10·8430	10·6501	72820	C 14266	9·5	12·1285	1·6629	73462	C 14377	8·6	18·2795	14·2395
72664	C 14182	9·3	10·8932	21·0481	72988	C 14267	7·5	12·5566	11·3778	73489	C 14379	8·2	19·0541	16·4025
72646	C 14186	9·5	11·6304	18·2666	73187	C 14270	9·5	13·0066	22·8267	73539	C 14385	9·0	20·7832	20·7924
72507	C 14187	9·0	13·3973	1·4099	72824	C 14277	9·4	14·2201	2·2557	73517	C 14387	8·7	22·1994	19·0412
...	C 14189	8·5	14·6879	0·2686	72827	C 14280	9·5	14·8338	1·7530	73450	C 14388	8·9	22·5931	13·7193
72653	C 14193	9·5	15·6590	19·0069	72976	C 14281	8·0	14·9182	11·2192	73587	C 14392	9·4	24·0833	25·6826
72573	C 14195	6·8	16·8942	9·2204	73017	C 14282	8·8	15·4788	13·7217	73468	C 14396	9·0	24·6045	14·4926
72560	C 14196	9·1	17·4432	6·6495	72910	C 14283	9·1	15·6154	6·3961	73312	C 14399	9·0	25·6139	1·4367
72626	C 14197	9·5	17·4808	15·4806	73089	C 14286	9·0	16·0832	16·3560	73401	C 14400	9·5	25·6318	9·3374
72508	C 14201	6·3	18·3503	0·5279	72847	C 14285	7·8	16·0854	2·9636	73527	C 14401	9·0	25·6774	20·0889
					72962	C 14287	9·5	16·1215	9·4067	73344	C 14402	9·0	25·9566	5·0175

LIST OF CORRECTED CAMBRIDGE PLACES.

The places of the following stars given in the Cambridge *Astronomische Gesellschaft* Catalogue for 1875·0 were found to require substantial corrections. The revised places for 1900·0 (as determined by new meridian observations made at Cambridge, checked by examination of the Oxford plates) are given below, and in Volume III., p. 223, for those stars which occur in the *Oxford Astrographic Catalogue*, Vol. IV.

No in Cambridge A. G. C.	New No.	R.A. Cambridge 1900·0.	Dec. Cambridge 1900·0.	No. in Cambridge A. G. C.	New No.	R.A. Cambridge 1900·0.	Dec. Cambridge 1900·0.
		h m s	° ' "			h m s	° ' "
419	420a	0 38 22·54	+26 56' 19·4	9924	9924a	19 20 14·62	27 32' 32·0
3324	3306	6 26 37·68	27 32 48·4	11329	11322b	20 22 50·00	27 40 49·8
3686	3690a	6 56 2·24	27 53 36·7	12505	12489a	21 21 30·20	27 54 26·4
9317	9308a	18 48 7·01	27 13 1·1	12569	12566a	21 25 27·42	27 35 36·1
9412	9520a	18 58 56·02	27 33 38·4				

ASTROGRAPHIC CATALOGUE, 1900·0.

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